



CATALOG WS-96

FAIR RADIO SALES CO.
WORLD'S FINEST

ELECTRONIC SURPLUS

GOVERNMENT AND COMMERCIAL

MANY ITEMS AT SPECIAL SALE PRICES!

MILITARY GPS RECEIVER



TRIMPACK GLOBAL POSITIONING SATELLITE RECEIVER made by Trimble Navigation for US military (AN/SPN-4). Rugged hand-held unit has

4-line LCD display and built-in antenna. Receives data from GPS satellites to calculate position to within 30 meters plus velocity, time, and navigational info. 2- & 3-dimensional fixes possible depending on number of satellites tracked. Displays position coordinate systems Latitude/Longitude (DM & DMS), Universal Transverse Mercator (UTM) and Military Grid Reference (MGRS). Operating parameters selectable: Time (UTC or Local), Distance (English, Metric or Nautical), Angular units (Degrees, Mills or Radians) and Azimuth (True or Magnetic North). User can choose from 50 reference datum maps and define up to 26 waypoints. Also data port for computer or another Trimpack. Designed to function in environments of -30° to 65°C (-22° to 150°F) at up to 100% humidity. Requires 9 to 32 VDC; batteries not supplied. W/ operator's book. 2.4x8x10, 5 lbs sh. USED-OPERABLE, \$395.00

SEM-52 RADIO

SEM52 VHF RADIO SET, German-made unit can operate on six preset channels (only 2 supplied) in 47- 56.975 MHz FM range @ 300 MW; 25 KHz spacing. Has Off-On-Squelch (AUS-EIN-RSP), Volume & Channel (KANAL) select. Requires six AA-batteries. Includes RT, 35" ribbon antenna with flex base, "web" headset-mic and carry bag. May not comply with FCC regulations. 7.1"Hx 3.4"Wx1.5"D, 4 lbs sh. USED-clean, NOT-TESTED, \$125 each.

40 W IRON

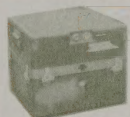


HEXACON 26S SOLDERING IRON, high quality 40-watt iron with 1/2" dia stainless steel barrel and 3"L plastic handle + 1.5"L corked grip area. Comes with semi-chiseled narrow 1/8" XTADUR iron-coated immunized tip for long wear. Has 4 ft 3-conductor AC cord and plug. O/a 7.9"L, 2 lbs sh. NEW, \$15.95

2-32 MHZ DIVIDER

RF POWER DIVIDER covering 2-32 MHz range. 50 ohm RF input is split into eight BNC connection outputs. 30 DB isolation, 1 dB balance. 0.75 DB insertion loss; VSWR 1.2:1. Input impedance: 50 ohms. 4x1.5x2.8, 2 lbs. #PSK-C44/37725, NEW \$22.95

FIBERGLASS CASE



FIBERGLASS TRANSIT CASE, measures 22"Wx18"Hx20.5"D; top half 8.5"H. Top not hinged; has eight wing-nut tighten hump fasteners. 4" foam padding on inside is removable. Also two side handles, pressure release button and humidity indicator; 35 lbs sh. #CY-7286, USED, \$25.00

SCR & DIODES

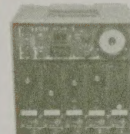
HIGH CURRENT COMPONENTS with pig-tails but no hardware; Westinghouse/Power X mfg. USED-good; #SCR-135048Y, 1300 PIV 500 A; 7" tail, \$15. #D-R610-0230, 200 PIV 300 A; 4" tail, \$8.95 #D-18937300, 100 PIV 150 A; 4" tail, \$3.75 *See pages 10 & 14 for more Diodes & SCR's!

UHF MULTICOUPLER



CU-547 UHF ANTENNA MULTICOUPLER, Collins-made unit couples four transmitters or receivers in the 224 to 400 Mhz range to single antenna. Uses four silver-plated cavities each separately tuned with Megacycles and Revolution count dials + verniers. Meter and selector switch monitors SWR and Cal for each. Four N input connections; LC output conn. 19x24x23, 82 lbs. USED, \$225.

NI-CAD CHARGER



PP-7286 BATTERY CHARGER for nickel-cadmium batteries such as BB-516-557-699-704, but will charge any 6-12-24-28 V nicad which will fit in front panel battery holders. Holders have fixed 1.7"W contact tray with sliding top contact that adjusts vertically 0.3" to 4" high; also has wire lead jacks for remote charge. Charge current: 15 to 700 ma. Charge Time set on 3-digit switch; Elapsed Time shown on digital readout. Meter for charge current of each channel. Requires 115/230 VAC 47-400 Hz. 11.6x13x9.5, 38 lbs. USED-excellent, \$49.50

NAVY CABLE ANTENNA



AS-3379/BRR WIRE-CABLE ANTENNA, probably dragged behind ships or submarines as VLF-LF antenna. Consists of 125 foot long 5/8" dia coaxial cable with 8"L cast aluminum mounting shank and special RF connector which could probably be changed to common N or C connector. Suitable also for under or above ground use. No further info; 23 lbs sh. UNUSED, \$59.50

VIDEO CAMERA TRIPOD



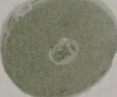
SOLIDEX VT-84HQ TRIPOD designed for video or photo cameras. 3-section metal legs with center brace have quick-release tabs. Extends from 24" to 58" height. Has tilt-head with swivel plus bubble level and "quick-release" platform for easy camera mount-dismount. 5 lbs sh. #VT-84HQ, NEW, \$27.95

LORAN NAVIGATOR



SPORTNAV LORAN C NAVIGATOR by Voyager, hand-held unit's 2-line LCD display determines latitude/longitude position and plots routes using data from Loran transmitters commonly used in marine navigation. Single, double or multiple waypoint navigation; stores up to 100 waypoints. Computes waypoint-destination arrival and ground speed. Speed and distance indicated in English, Metric or Nautical terms. Also automatic computation of magnetic variation and land mass correction; manual or automatic Loran station selection. Designed to function in -5° to 50° C (-22° to 122°F) temp; water resistant. Has telescoping antenna; requires 7-9 VDC 60 ma battery input. With carrying case and operator's manual; 3.8x9.5x1.9, 4 lbs sh. #SNV-LC-WC, USED-OPERABLE, \$125.00 #SNV-LC-NC, SportNav without case, \$112.50

156 FT MEASURE



TAPE MEASURE, 156 feet reinforced vinyl-cloth tape wound on 7.2" dia enclosed reel with crank and leather hand strap; 3 lbs sh. #TM-156, used, \$13.

ORDERING
INFORMATION
SEE PAGES 2 & 21

MINIMUM
ORDER \$10.00
+ SHIPPING

Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.

Lima, Ohio 45802

419-223-2196/227-6573

24 Hr. FAX 419-227-1313

CATALOG
INFORMATION

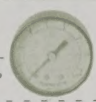
This IS the only catalog we will issue this year. A supplement will be sent in the Fall.

AIRPAX



AIRPAX MINIATURE RUNNING TIME INDICATOR, mechanical 4-digit 115 V 60 Hz, 0.8"Hx1.1"W bezel; fits 0.6" sq hole. #K49201-P2, NEW, \$12.95

PRESSURE GAUGE, 0-60 PSIG & 0-4 KG/CM; 2.1" rd w/ 1/2" dia fitting. #PG-60PSI, NEW, \$5.50



0-50 NULL METER FS=200 UA, 4.2x 4.5"W; Simpson-style. NEW, \$10

MODUTEC METERS

1.8"H x 2.8" W bezel; fits 1.6" dia hole. USED, Specific: 0-150 VAC, \$8 0-40 VDC, \$7 0-150 AMPS DC w/shunt, \$10 0-50 AMPS AC w/xformer \$12

DAYTONA ATD METER, FS=200 UA DC, red face scale f/metal detector; 2.6x3"W, Korean. NEW \$8.92

-20 to +3 VU SCALE meter, FS=250 UA; 1.9"x1.8", Korea #DPB-48, NEW, \$3.00

KWM - 2 A S - METER made for Collins transceiver by Simpson. NEW, \$29.95



ES-25 5A DC SIMPSON (b), 25-0-25 Degrees, 2.5", \$9. 0-10 MA DC SIMPSON (b), 3.5" square; NEW, \$8.95 0-250 MA DC GE (c), 2.3"H x 2.8"W; NEW, \$9.95 0-15 AMPS DC MODUTEC (c), 3"Wx2.5"H; NEW, \$12.00 0-100 VDC GE-YOKOGAWA (a), 2.5" sq; NEW, \$8.95 0-200 VDC, JEWELL (c) 2.6"H x3"W; NEW, \$7.95 0-100-200 AC AMPS FS=5 A-AC GE-YOKO (a) 2.5" sq. \$8.95 0-30 VAC GE DW-91 (a), 2.8" x2.8". NEW, \$8.00

VU METER, -20-0-+3 scale; 2.5" rd sealed. USED, \$15.

DC AMMETERS by Mercer Electronics, 3x2.5"; fits in 2" dia hole. FS=50 MV; NEW.

0-800 ADC \$7.95

DECIBELS

-20-0 and -15-0-+5 DB 3.5" dia blk face; FS=100 ua, \$6 2.5" sq; NEW, \$8.95 -12-0-+8 db FS=100 ua; 3.5" rd, Macline 4586. Used, \$7. -4-0-+6 DB 1 MW, FS=1 MA; 2.5" rd sealed. used, \$4. -6-0-+3 DB, FS=200 ua 2.5" rd sealed; used, \$4.95

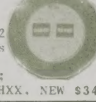
OTHER VALUES IN STOCK, WRITE

15-36 DB MW and 0-50 V Output Level scales; FS=1 MA DC, 3.5" dia. Used, \$5.95

60/400 HZ REED FREQUENCY METER two reeds—one 60 Hz, one 400 Hz—vibrate when frequency approached. 2" dia; fit 1.5" hole. #FM-TS382, used \$9.95

47-84 METER ASSORTMENT, five 5" mfg meters 2 1/2"-3 1/2"-up; mixed odd scales, FS=100 ua and up—no choice \$10/assort

JBT 60 HZ REED LINE FREQUENCY METER dual 48-52 and 58-62 Cycles / Second scales each w/ 5-reeds; 3.5" dia. #30-FHXX, NEW \$34



FLUKE METER FS=100-0-100 UA-DC with indicated 1-0-1/500-0-500 mirrored scale; 4.5"Hx4.3"W. #M1/FLUKE, used, \$10.95

WESTON 1941

or Triplett 7: 4.3x4.8"; for Western Electric. USED, \$10. 0-5 AMP DC or 0-500 A DC FS=50 MV. WESTON, new: 40-60 VDC, \$15 0-75 ADC, FS=50 MV, \$12.00

POLARAD METERS. 4"Wx3.8"H. Used: #M1/TV13, FS=50 UA 0-100 scale, \$9. #M2/TV13, FS=100 VDC, 0-100-500 scale, \$8.95 #M4/TV-13, FS=150 VDC, Beam 0-1500-5000 scale, \$8.95

ZERO CENTER FS=500-0-500 UA DC; 3.5"W x 3"H HOYT mfg. Indicated scale. -50/-100-0-+50/+100 MA DC. -25-0-+25 VDC. NEW, \$9.95

#M15V-12A MATCHED METER SET 3.5" rd meters 0-15 VDC and 0-12 ADC w/shunt. USED \$20.

0-200 VDC WESTON 2041; 4"Hx4.5"W, NEW, \$12.00

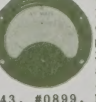
TRIPLETT 330 GP BENCH METERS, 3.5"x3" meters in plastic slanted 4x4.2 x3.8 case; 0-1 AMP AC SCALE with black & red terminals + rear fuseholder. \$16.95



AC VOLTMETERS

0-10 VAC 2.5" rd., USED, \$5 3.5" rd or square, USED, \$6 30-150 VAC 2.5" round; various mfg. USED, \$9.95 50-300 VAC 3.5" round or square, UNUSED, \$10.95

VTVM METER 1 to 10 VAC scale expanded lower portion with 3.5 V centered; also 0-20 DB. 4.5" rd, Weston 643. #0899, NEW \$8.95 \$6.95



D.C. MILLIAMPS.

FS=1 MA, 0-5 V/50 MA scale 3.5" rd clear case. USED \$5

0-1 MA DC, 2.5" round; various mfg. USED, \$5.95

0-2 MA DC, 2.5" rd; sealed Phaotron. UNUSED, \$6.95

FS=5 MA DC, 0-150 VDC scale 3.5" square. USED, \$6.95

FS=25 MA DC, 0-25/100/200 scale; 2.5" rd. USED, \$5.95

0-30 MA DC 2.5" rd; sealed Phaotron. UNUSED, \$6.95

0-80 MA DC, 2.5" rd sealed; various mfg. UNUSED, \$6.95

0-100 DC MA, 3.5" rd sealed #4265, UNUSED, \$6.95

150-0-150 MA DC, 3.5" rd Weston 2331. Unused, \$7.95

0-300 MA DC, 3 1/2" rd, clear plastic case. Used \$5.95

1-0-1 MA DC, 2.5" rd sealed; various mfg. Used, \$5.95

0-300 MAC DC 3.5" square; Weston 301-67. Unused \$7.95

100-0-100 MA DC, 3 1/2" rd Weston 301; Used, \$5.95

50-0-50 MA DC, 3.5" dia; Weston 301 or 2. Unused \$7

75-0-75 MA DC, 3.5" square Weston, UNUSED, \$7.95

D.C. VOLTMETERS

0-100 VDC, 3 1/2" rd clear plastic case; used, \$5.95

0-15-600 VDC, 2 1/2" rd black face; w/mult. code USED \$6.

0-150 VDC, 3.5" round; Burlington 431. Unused, \$7.00

0-20 KV FS=1 MA; 2.5" rd black, 3.5". \$7

0-300 VDC 2.5" rd; sealed various mfg. USED, \$9.95

FS=2 VDC, 0-20/80 MA scale; sealed. USED, \$5.95

FS=5 VDC, scale 0-1.5 A & 0-300 MA; 2.5" rd. Used, \$5.

0-50 VDC, 2.5" round; various mfg. USED, \$6.95

0-3 VDC 2-1/4" rd black face; IS-121. UNUSED, \$6.95

0-500 VDC, 3.5" rd or sq; various mfg. Used, \$7.95

0-750 VDC, 3.5" square; various mfg. Used, \$8.95

0-300 VDC, 3.5" rd sealed; various mfg. USED, \$6.95

0-600-1500 VDC, FS=1 MA DC; 2.5" round. Used, \$5.95

0-200 VDC 2.6"Wx2.4"H clear plastic; E/M/MA. UNUSED \$8

AC AMMETERS

50-300 MA AC, 2.5" rd sealed. UNUSED, \$10.

0-100 AMPS AC w/ 100/5A current xfmr; 240 scale. UNUSED, \$12

FS=5 A-AC, 0-125 A, 3.5" sq FS=5 A-AC; 0-150 A, 2.5" sq



STORE HOURS

9 A.M. to 5:30 P.M.
MONDAY THRU FRIDAY
9 A.M. to 1 P.M. SATURDAY

TERMS

PRICES NET, F.O.B. LIMA, OHIO SEND MONEY ORDER, CERTIFIED CHECK, VISA, or MASTERCARD WITH PURCHASE ORDER for IMMEDIATE SERVICE.

We reserve the right to hold an order accompanied by personal or company check until after check clears the banks.

MINIMUM ORDER \$10.00 PLUS SHIPPING CHARGES

Include sufficient money for shipping charges. (UNUSED) PAYMENTS RETURNED AT ONCE) Otherwise we will send shipping charges collect.

Order, Warranty, and Return Policy Information page 21!

DESCRIPTIONS

ALL MATERIAL OFFERED IN THIS CATALOG IS IN "USED-COMplete" CONDITION, UNLESS QUALIFIED AND/OR NOTED AS "RECONDITIONED," "UNUSED," or "NEW."

MERCHANDISE IS NOT OPERATIONALLY CHECKED UNLESS SPECIFIED AS "CHECKED."

EQUIPMENT DESCRIBED AS "REPAIRABLE"—MEANING "ABLE TO BE REPAIRED"—IS ELECTRO-MECHANICALLY COMPLETE, BUT REQUIRES SOME TROUBLESHOOTING BY THE CUSTOMER.

D.C. MICROAMPS.

0-200 UA DC, 2.5" rd sealed; various mfg. Used, \$5.95

0-200 UADC and -8-0-+6 DB, 2.5" rd, sealed, new, \$4.95

FS=100 UA DC, 0-500 w/100x scale; sealed. USED, \$5.95

FS=50 UA DC, scale -30 to 150 w/pointer on "0"; 2.5" rd sealed. #TRC30150, \$4.00

ES=100 UA, 0-center Null scale; 2.5" rd, sealed, \$7. FS=50 UA DC, 0-1 scale; 3.5" rd. UNUSED, \$6.95

ES=50 UA DC, 0-center Red-Green-Red scale; 2.5" rd \$7.

FAN-SHAPED METERS, 3" top 2 1/2" bottom; 3" H. Fits 2" dia. hole EMI mfg. Unused.

#EMI-5 VDC, 0-5 VDC, \$5.95



1-3/4" SQUARE f/1.5" holes: #3661, FS=50-0-50 UA, Red-Green-Red scale. NEW, \$9. #DB-1000UA, FS=100 UA, -9. #VSWR-200, FS=200 UA, VSWR scale; black. USED \$8. #6901, 500-0-500 UA DC, \$7. #V0V-1MA, FS=1 MA DC, non-scaled Output Volts, \$6. #M/50VDC, 0-50 VDC Phasotron white face. NEW \$6.50 #ME/AM-66 SIG LEVEL 0-4 MA DC w/ red line. USED, \$6. #4353, 0-150 VAC JEWELL MSIT plastic. NEW, \$10. #25AFC, FS=100 UA, 0-25 AFC Volt sec 1-3/4" round, \$7.

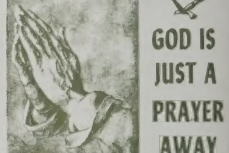


DISCLAIMER

Items in this catalog are "used" and/or "obsolete" equipment which may not conform to current Federal laws governed by the Federal Communications Commission (FCC), the Occupational Safety and Health Agency (OSHA), the Environmental Protection Agency (EPA), and other federal and state governmental agencies.

Furthermore, many items in this catalog have potential to produce harmful and even lethal electrical voltages. Proper and safe use of any item purchased is the customer's sole responsibility.

The customer assumes all liability and holds Fair Radio Sales Co., Inc. harmless for compliance to current and future laws pertaining to the use and possession of equipment purchased, for any personal injury liability arising from improper and unsafe use of purchased equipment, and for any property damage caused directly or indirectly by equipment use.



GOD IS JUST A PRAYER AWAY

R.F. AMMETERS

0-10 ANT-CURRENT (750 RF MA) w/thermocouple, 2.5" rd, \$9. 0-100 RF MA, 2.5" rd. \$9.95 0-4 RF A, 2.5" rd black \$12

0-8 RF A, 2.5" rd black \$14 0-15 RF A, 3.5" rd Used \$15

DC AMMETERS

DC AMMETERS, FS= indicated: 0-3 ADC, 3.5" rd, NEW, \$10 10-10 ADC, 2.5" rd, \$9.95

0-15 ADC 3.5" rd surface mount style. Used, \$10 0-25 ADC, 3.5" rd, NEW \$12 0-30 ADC, 2.5" rd, NEW \$12

EDGEWISE METER 0-8 AMPS DC; 1.9" wide X 3/4" high; EMICO #D2588, \$7.

WESTERN ELECTRIC 3.5" round clear plastic case; used: 0-10 ADC \$12.00

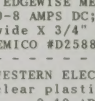
-45-0-+45 A DC VEHICLE-TYPE 2.2" RD; FARIA, #2761, \$5.95 + \$4.00 shipping

DC AMMETERS, FS= 50 MV: 0-15 ADC 3.5" rd black, \$7 0-30 ADC 2.5" rd, \$7 0-50 ADC 3.5" rd, NEW, \$8 0-150 ADC 3.5" rd, NEW, \$8 0-1500 ADC 3.5" rd used \$8

50 MV SHUNTS 10 or 30 A, \$6 + \$4.00 shipping

PHILCO METER by various makers, 0-10-20-50 scale, FS=10 VDC 20K ohm/volt, 4" Hx4.6"W; NEW \$10

0-150 A/0-75 V DC DUAL SCALE, 0-150 ADC/0-75 VDC FS=150 MV; zero adjust. 2.3x2.8, #J8-15075 NEW \$5.95



RT-662 & AM-3349/GRC-106



RT-662/GRC-106 TRANSCEIVER, covers 2 to 29.999 MHz USB-AM-CW-FSK; tunes using 5-decade mechanical switches to 1 kHz increments plus vernier. Exciter output 100 W. Controls for Service Selector, PA Load, Squelch, Noise Blanker, BFO, and other audio functions. LESS Signal level meter. Requires 24 VDC 10 amps; 7x18x13, 55 lbs sh. USED-"AS-IS" not tested/LESS meter. \$250.00
RT-834/GRC-106A, similar to RT-662 above but 2-29.999 MHz, 0.1 KHz increments, \$425.00

AM-3349/GRC-106 POWER

AMPLIFIER, amplifies 100 MW output from RT-662/834 to 200 W MW, or 400 W PEP. Uses two 4CX350A tubes in PA and 7-1000 pf 5 kV vacuum capacitor. Controls for ANT TUNE and LOAD, 50 ohm line. Test Meter Function, and system ON-OFF. LESS meters Antenna Tune, Load, & Test. Requires 28 VDC 1000 W max. 9x 18x13, 77 lbs. USED-"AS-IS", no meters, \$525

MANUALS, partial repro: GRC-106/106A, \$40. OPERATOR'S only for GRC-106A, \$10.00

H-33/PT HANDSET, used-checked, \$17.50
M-29B MIC, used \$12. H-227 Headset, \$27 \$13
LS-166 SPEAKER, used, \$16.00
AB-652 MAST BASE, 6 lbs sh. UNUSED, \$27.00
MT-3140 MOUNT & SIDE PLATES, 25#. Used, \$35.
CX-10099 INTERCONNECT CABLE, used, \$20.00
CX-10171 ANTENNA CABLE, 4 lbs. Used, \$22.00

GRA-50 ANTENNA MAST KIT for GRC-106, consists of 3 each MS-116 and 1 ea MS-117 & MS-118 three foot mast sections, AB-652 mast base, polyethylene cover, cleat, and CW-206 canvas bag; 18 lbs sh. USED, \$35.00

DOLLAR

DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

45-85 3AG 1 amp FUSES 10/81;
SLO-BLO 3AG 1 amp, 10/81.25;

41-81 LOUD BUZZER HORN as used in smoke alarms; 2" dia x1 1/2". 6 VDC \$1.25 ea;
12 VDC \$1.35 ea; 115 VAC \$1.45 ea

52-90 ATARI COMPUTER GAME SWITCH BOX; select "TV" or "computer". 300 ohm impedance. NEW, \$1.50 ea

KEY-LOCK ASSEMBLY for cabinets, etc. in which key turns 4.8" long shaft & catch tab. NEW, \$1.95 ea

23-77 BRASS COUPLINGS for 3/8" dia. x 3/4" long shafts. 3 for \$1.00

PHONE MODULAR SPLITTER, fits wall mod jack; adds 2nd outlet for computer or answer machine, \$1.95 2/93

50-88 Miniature LEVEL METER, FS-100-0-100 microamp; 7/8" sq., flange mount 1-3/16" o.c. \$1.50 ea

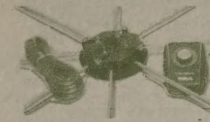
55-95 SWR BOARD #PTSR006A0X f/ HyGain radio; no info. \$1

53-90 AC LINE CABLE ADAPTER, for 3-cond plug to 2-cond outlet w/ground; molded light grey. 3 for \$1.00

RUBBER EQUIPMENT PADS, 5/16" dia self-adhesive; 40 per sheet. 2 sheets for \$1.50

54-91 NOISE-ACTIVATED SWITCH w/sens adjust & mic; 6 VDC in, 2"x2". \$1.25 ea

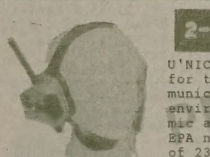
REMBRANDT ANTENNA



FM STEREO ANTENNA, omni-directional 8-element antenna is electronically "rotated" using remote command control. Elements each 20" long; assembled dia is 47". Fits 1.25" dia mast; mount indoors or outdoors. With 50 feet 4-conductor lead wire, control unit, and hardware; 7 lbs sh. REMBRANDT Model 5000, NEW, \$25.00

TRIPLETT VOM

TRIPLETT MODEL 100 VOLT-OHM-AMMETER SET with Model 310 hand-size volt-ohmmeter; measures 0-3-12-60-300-1200 VAC-VDC, 0-0.6-6-60-600 MAC-DC, and 0-20K-200K-2M-20 Megohms. Model 100 AC AMMETER CLAMP has high current ranges 6-12-30-60-120-300 AC amps. Also includes Model 101 adapter, test leads, leather case, and book. Requires 1.5 V "N" and 15 V Eveready or = batteries. Meter: 2.8"Wx4.3"Hx1.3". 5 lbs sh. NEW, \$69.50

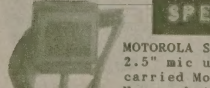


2-WAY HEADSET

U'NICO HANDS-FREE HEADSET for two-way-FM radio communications in high noise environments. Uses throat mic and ear cushions with EPA noise-reduction rating of 23 DB. Operates on 49.86 MHz FM; controls for Volume and Squelch. Includes velcro adjustable head web & mic straps, 6" antenna, and fiberglass case. Requires two 9 V batteries; 6 lbs. MODEL 7800H, NEW, \$39.50 \$85.00

100 WATT TRANSMATCH

COLLINS 100 WATT TRANSMATCH ASSEMBLY with Johnson 229-201 10 uH roller inductor with vernier dial, 600 pf variable capacitor, and two banks of five 100 pf HV ceramic capacitors. Also Hi-Lo antenna impedance switch and 0-500-1K pf Loading capacitor switch for adding parallel capacitance. Two N connections on rear; 5.3x6.3x7.5, 7 lbs. #CU737/18002, used, \$75.



SPEAKER MIC

MOTOROLA SPEAKER-MIC, 2.3" X 2.5" mic used with some waist-carried Motorola transceivers. Has push-to-talk switch, 14" to 48" coil cord & back clip; allows "near" hands-free communications. #MMN6071B, NEW, \$17.95

AUDIO OUTPUT METER

TS-585 OUTPUT METER for audio amps, filters, oscillators. Ranges 0.1-5 mw, -10+7 dbm; 1-50 mw, 0+17 dbm; 10-500 mw, +10+27 dbm; 100-5000 mw +20+37 dbm read on 3.5" dia meter. Multiplier circuit x0.1, x1, x10, x100 allows input impedances 2.5 to 20000 ohms in 40 steps; 30-10000 Hz response. 8.5x11x5.5, 17 lbs sh. USED, \$69.50; Manual-reproduction, \$8.50



P-A SPEAKER

XSAM-A-7 PA SPEAKER, heavy-duty public address speaker for 50 or 70 volt line; response 500-4000 Hz @ 7.5 watts. Driver is 6 ohm 15 W 12" dia baffle mount holes on back. 24#. UNUSED \$27.50

VACUUM TUBES

Huge government sales of electron tubes allows us to offer the following audio, transmitting, and receiving tube types. All are UNUSED MILITARY-BOXED unless noted otherwise:

2A3 branded "Penta Labs - Made in USA" but look Chinese-made, \$14 ea. 10 for \$120
6B40A Sylvania made version of 6B4G with GA-glass and cathode. Does not test like 6B4G in tube tester but performs as well in most circuits, \$17.50

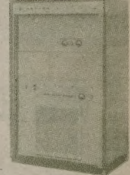
5691 National, industrial 6SL7, \$6.50
6922 Phillips ECG, \$3.50 ea. 10/\$28 100/\$200
7025 GE, industrial 12AX7, \$7.50

2K25 Raytheon blue, X-band, \$75. \$40.
4CX300A/8167 Elmac in sealed cans, \$85 \$65.
4D32 Raytheon, \$55. \$35.
1625 National Union or =, \$1.50 \$4.50
6146W GE, \$19.95 each. 10 for \$175.

5R4WGB Cetron, \$4.00 6AJ5 Tungsol, \$3.50
6AN8 Sylvania, \$3.50 6DK6 GE, \$3.00
6EJ7 United, \$3.25 6SC7 GE, \$4.00
6S07 RCA, \$3.00 12BE5 ECG, \$3.00
955 acorn, \$3.50 5676 t/PRC-6-10, \$4.
5852 Bendix 6X5, \$4. 5998A Sylvania \$9.95
7586 nuvistor, \$10.00 7587 nuvistor, \$15.
8056 nuvistor, \$5.00 8058 nuvistor, \$18.
* See page 21 for other tubes! *

COLLINS 208U-10

COLLINS 208U-10 KW POWER AMPLIFIER, the "standard" for 2-30 MHz SSB-AM-CW 10 KW (PEP) amps; requires only 0.2 W RF input to drive. Output load & input impedances: 50 ohms. RF bandwidth: 16 KHz. Can be tuned automatically with compatible control circuit or manually from front panel. Two 4CX350A tubes drive 4CX10000D PA tube. Has vacuum capacitors 12-1500 Mf 15 KV, 50-2300 mf 5 KV and 3-30 pf 15 KV. Similar to picture; with manual copy. Requires 195-225 or 380-440 V 3 1/2 47-63/400 Hz. 40x70x27.5, 1500 lbs. USED-NOT TESTED, less 4CX10000D, \$3750.
* 4CX10000D, used-LAB-CHECKED, \$750.00 *



28 VDC 50 AMPS

PP-4763 /GRC POWER SUPPLY, produces 28 VDC 50 amps output from 115/230 VAC 47-63 Hz 22/11 amp input; solid-state with +/-0.5% regulation. Has meters 0-50 VDC and 0-80 amps DC; 13.5x19.5x15, 145 lbs sh. USED, \$195.00

TWIN-LEAD WIRE

TWIN LEAD HOOK-UP WIRE, 5000 foot reel of 2 x #24 low voltage control cable; suitable for speaker, field phone, outdoor lighting or similar low voltage wiring uses. 32 lbs sh. #2x24-5K, NEW, \$29.95

4-OUTLET BOX

WEATHERPROOF OUTLET BOX, four 3-conductor AC outlets are covered by separate spring-loaded covers in rugged aluminum enclosure; 9" cable has 3-pin Cannon connector. Can be hard-wired for use with extension cord, etc. 5.5x 3x6.5, 4 lbs sh. #WP-4AC-BX, used, \$12.95

19 FOOT AC CABLE with 3-conductor plug; PVC jacketed shielded cable has six #18 vinyl-covered wires in pairs to connector; 3 lbs. #6C-19, \$2.50

USA TO EUROPEAN POWER ADAPTER CORD, has USA 3-conductor female plug one end and 2-pin European male plug on other. Suitable for radios, test equipment, computers, etc. 13" long. #USA-EU-CORD, new, \$3.50

ART-13 TRANSMITTER



T-47/ART-13 HF TRANSMITTER, famous 2 to 18 MHz 100 watt AM-CW -MCW set which was the next "step-up" from the ARC-5 transmitters for many post-WW-II and Korean War radio amateurs. Can be manually tuned or autotuned for 11 preset frequencies. W/tubes 6V6, 12SA7, 2/12SJ7, 2/12SL7, 2/813, 813, 3/21625. Requires 24 VDC 10 amps, 400 VDC 225 ma, 1250 VDC 250 ma originally supplied by DY-12/17 dynamometers (not available). 23.5x16x11, 85 lbs sh

USED, \$195.00; MANUAL, partial repro, \$12.00 C-87/ART-13 CONTROL BOX, 2#, unused, \$12.50

AM-6155 POWER AMP

AM-6155/RT-22 POWER AMPLIFIER (11T 3212) conservatively rated for 50 watt output from 10 watt exciter input over 225-



400 MHz; uses Eimac X6512/8930 or Amperex DX393 tetrode (no choice) in silver-plated cavity-drawn, 175-turn TUNE counter dial. Main chassis has solid-state power supply and buffer amp/multiplier; panel meter monitors voltages. Requires 105/120/210/240 VAC 50-400 Hz and +20 V reg 60 ma, +20 V keyed; w/schematic info. 7x19x18.5, 80 lbs sh (UPS in 2 pkgs). Used-excellent-NOT TESTED, \$235.

VHF XMITTER-AMPLIFIER



AN/CR-18 VHF XMITTER-AMPLIFIER SET, solid-state, single crystal-controlled channel in 120-152 MHz range @ 50 W out. T-949 transmitter has meter to monitor Oscillator. Buffer/Doubler, Out put 30 W Forward;

Reflected, Modulation 0-100%, Voltage, Trimmer controls: Carrier PTT-ON, Mod/ RF/ Mic Gains. AM-4531 POWER AMP uses 8122 tube; metering for 2 KV Plate, 1 KV Screen, 1 KV Plate RF Peak, -100 V Bias, 100 W FOR & REF Power & 0-300 MA Plate Current Controls Load & Coupling w/lock & Bias Adjust. Includes Amphenol 350-11996-1003 RF antenna transfer relay & connecting cables. Manual not available. Requires 105-130/210-260 VAC 47-400 Hz. Each 7x19x14.5; 85 lbs sh. TOTAL. USED-EXCELLENT, not tested, \$225.00 AM-4531 AMPLIFIER only; 45 lbs sh, \$155.00

490TI AUTOMATIC COUPLER

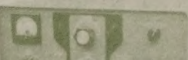
COLLINS 490T-1A (CU-1669A) AUTOMATIC ANTENNA COUPLER for 618T and similar 2-30 MHz transceivers; rated RF input 630 W PEP, 200 W average. Matches 25 ft or longer whip or 25-100 ft long-wire antenna to 50 ohm line.



Terminal for wire and "C" coax connection. Has 5-500 pf 10 KV vacuum vari-capacitor and variable step-coll. Requires 115 V 400 Hz; 7.6x10.1x12.6, 24 lbs. Used-not tested, \$450 MANUAL for CU-1669, \$15.00 w/ 490T purchase.

COLLINS SOLI LINEAR AMP

COLLINS 301L RF POWER AMP, manually tuned five bands 3.5, 7.0, 14, 21 and 28 MHz. Amplifies 70 watt drive signal of KWM-2A transceiver to 500 watts PEP using four 811A tubes. Metered 1 AMP/2 KV DC. Requires 115/230 VAC 50-400 Hz. 7.8x14.3x13.3, 44 lbs sh. USED-REPAIRABLE, \$550.00



618M-1C VHF



COLLINS 618M-1C VHF AIRCRAFT TRANSCIEVER, covers 116 to 149.975 MHz AM with 25 KHz channel spacing, 1300 channels total. Power output: 30 watts into 50 ohms. Mic input: 150 ohms; audio out 600 ohms. Receiver bandwidth 40 KHz @ 6 DB (Normal), 20 KHz (Sharp). Solid-state except for 7558 & 8121 PA tube. Front panel has meter and switch for circuit voltages, jacks for Phone & Mic, and Squelch Disable button. Requires 313N-2 control box (not available) for freq-selection. Power input: 27 VDC 250 W max. 4.9x7.5x12.6, 23 lbs sh. USED-not tested, \$99.50; MANUAL for 618M-1C, partial repro, \$25 w/set purchase

618T2 TRANSCIEVER



COLLINS 618T-2 SSB AIRBORNE TRANSCIEVER, 2 - 29.999 MHz SSB-AM-CW in 28000 channels. Power output: 400 watts SSB PEP, 125 W AM-CW; 52 ohm output imped. Sensitivity SSB: 1 uv for 10 DB S+N/N. Selectivity SSB: 2.85 KHz, 6 DB down; 6.0 KHz 60 DB. Audio input: 600 ohms. Uses two 4CX250's in P-A. Switch & meter monitor internal power. Separate control necessary for channel select. Racks & cables not available. Requires 115 VAC 400 Hz 3 Ø 1 KVA and 1 Ø 160 VA; also +27 VDC 4.5 amps. With manual repro; 7.6x10.1x22.2, 58 lbs sh. Used-repairable w/K9 oscillator, \$550.00 #618T-3, like above but requires 28 VDC 35 A and 115 VAC 400 Hz 1Ø 100 VA. Used, \$600.00

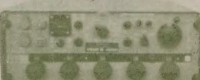
RT-712/ARC-105 HF AIRCRAFT TRANSCIEVER, pressurized 618T2; modules interchangeable. Covers 2 to 29.999 MHz SSB-AM-CW in 28000 channels. Front has hour meter, C and BNC connections. Separate control needed for freq select. Power & control connectors not available; requires same power input as 618T2. 10.5x11.5x23, 70#. Used w/schematic, \$495.00 C-6454/ARC-112 CONTROL BOX, similar to 714EZA control designed for 618T; different rear connector, 3#. Used, \$45 w/618T purch.

ARC-109 TRANSCIEVER

RT-749/ARC-109 UHF AIRCRAFT TRANSCIEVER, solid-state Collins unit operates over 225-399.95 MHz AM, DSB, and A3 phone @ 30 watts min. 3500 available channels in 50 KHz intervals plus 243 MHz guard channel. Uses 4631 tube in P-A; 150 ohm audio/mic impedances. C-6364 control necessary for channel selection; cables & racks not available. Replaced ARC-27-34-51-52. Requires 115 V 400 Hz 3 Ø. 6.8x9x16, 29#. Used-repairable, \$695, \$495. SCHEMATICS, PART, used, \$12 w/set purch. C-6364/AR CONTROL, used, \$45 w/set purchase.



R-1051G HF RECEIVER



R-1051G HF RECEIVER with IC circuitry in synthesizer allowing 2 to 29.999 MHz AM-CW-LSB-USB-LSB-RATT reception. Vernier freq-adjust allows virtual continuous tuning; 500 KHz IF. Controls RF Gain, BFO, AGC Fast-slow plus separate USB & LSB Level controls for Phone and Line; Audio -10/0/+10/+20. 50 ohm antenna input; 600 ohm USB & LSB audio. Uses 2 tubes in RF. Highly stable for shipboard use. 7x 17.4x18.9, 85 lbs. USED-CHECKED, \$995, \$795 MANUAL f/similar R-1051F, partial repro, \$48 R-1051B RECEIVER, predecessor of R-1051G with most features. USED-CHECKED, \$250 \$650 MANUAL for R-1051B, partial repro, \$45.00

SSB HF TRANSCIEVER



RT-594/ARC-38A AM-LSB-USB HF TRANSCIEVER, 2.0 to 25 MHz using 20 preset channels with autotune channel change. Stabilized master oscillator allows possible 35250 channels in intervals 500 Hz (2.0-7.25) and 1000 Hz (7.25-25 MHz). Output 100 watts PEP @ 14.25 MHz; 90 W @ 14.25 MHz. SSB sensitivity 1.5 uv for 10 DB S+N/N. Selectivity 3 KHz min 6 DB; 8 KHz max 60 DB. Has 25 tubes with 3/ 6159 in P-A. Requires +28, +600, +250, -50, -65 VDC and 6.3 VAC; Also 115 V 400 Hz for selsyn on inductor. 15.5x8x2.5, 80 lbs. (UPS in 2 pkgs.) Used, \$210.00; MANUAL, partial repro, \$22.

C-1398/ARC-38 CONTROL BOX, channel selection for RT-311; function switch can be modified to allow use with RT-594. Plastic fronts may be chipped or cracked; less frequency setting book. 8 lbs sh. Used, \$17.50 SETTING BOOK for C-1398/C-3428, repro, \$10. + + + + +

COLLINS 18013 AUTOMATIC ANTENNA COUPLER for use with ARC-38 or similar radios in 2-30 MHz range @ 50-180 W output. Automatically resonates antenna to radio's frequency and couples RF. Includes 7-1000 pf 3 KV vacuum variable capacitor & 28 uH variable ribbon inductor; UHF connection. Requires 28 VDC 3 amps, 250 or 400 VDC 5 ma & 115 V 400 Hz 20 VA. 0.5x7.8x11.5, 24 lbs sh. Used, \$475, \$90. MANUAL, partial-repro, \$10.

VACUUM VARIABLE

VACUUM VARIABLE CAPACITOR ASSEMBLY consist of UC5L-1000-3 7-1000 pf 3 KV max vacuum variable with 28 VDC drive motor and gear assembly. Will run on 6 VDC and up. 8x6.8x3, 7 lbs sh. #C501/180L, used, \$74.50

2-15 MHZ HARRIS TX-RX

AN/CR-165 TRANSCIEVER SET (HARRIS 301/302), solid-state unit covers 2 to 15 MHz USB-LSB-AM-CW in 1 KHz steps; output 100 watts PEP SSB, 25 W AM nominal into 52 ohms. Consists of RT-902 (RF301) transceiver, CU-1782 (RF302) antenna coupler, C-7648 remote box w/speaker, two shockmounts, four 4 ft antenna sections, AR-1082 mast base, AC & DC power cables. RT-902 has controls PA TUNE PRESELECTOR, and 4 decade FREQUENCY SELECT. Also MIC connection and built-in speaker. Requires 115/230 VAC 50-60 Hz or 24 VDC. CU-1782 is manually tuned with 3-digit LOAD and FINE TUNE counters. Also COARSE TUNE 1-10, 0-200 wattmeter, and FOR-REF POWER switch. Uses 10 uH and 18 uH roller inductors, fixed capacitor banks, and SWR bridge. C-7648 has built-in speaker and handset connection. RT: 7.8x18.5x14.3, 65 lbs. CU: 7.8x 5x14.3, 9 lbs. SET sh wt: 125 lbs (UPS in 3 pkgs). Set in 3 wood transit cases, 250 lbs (frack freight only). Used-repairable, \$595. MANUAL SET, Ops & Maint., partial repro, \$25

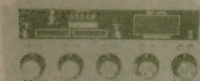
REPL-OFF. Control box provides channel selection, Volume, Squelch, OFF-RT-RETRN HOME switch. RT has some modules in common with RT-524/VRC-12. Requires 24-29 VDC 4 amp max. Rack & cables not available. 7.8x5.9x15.6, 31 lbs sh. Used w/control box, \$250.00

FM TRANSCIEVER



MAGNAVOX FM-622 (RT-823/ARC-131) AIRBORNE TRANSCIEVER, covers 30-76 MHz FM in 920 channels, 50 KHz steps. Output 1 watt in LO; 18 W max HI at 29 VDC. RT has Squelch Disable, Squelch Adjust, Test Switch and Meter to monitor +24 V -16 V-AC-REF FWD-RF REFL-OFF. Control box provides channel selection, Volume, Squelch, OFF-RT-RETRN HOME switch. RT has some modules in common with RT-524/VRC-12. Requires 24-29 VDC 4 amp max. Rack & cables not available. 7.8x5.9x15.6, 31 lbs sh. Used w/control box, \$250.00

RAMKO AUDIO MIXER



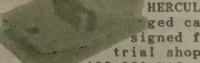
RAMKO DC-SRA 5-INPUT AMP/MIXER, each input has level control and can be connected to "A" or "B" buss or not connected to either. Each has LED VU-meter and Master gain control. Input level -60 DBM, 510 ohms/0 DB 560K ohms; factory set @ 0 DB, but changeable per directions in manual. Response 20 Hz-20 KHz. Speaker monitors input channel; with manual copy. Requires 115 VAC 60 Hz; 7x19x15, 17 lbs sh. USED, not-tested, \$99.50 \$79.50

SWR INDICATOR CIRCUIT



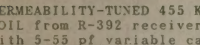
STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 14" square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. 30-239 connector. Bridge: 2x2x1; 2 lbs. #M701/CU-991, \$8.95

FOOT SWITCH



HERCULES FOOT SWITCH, rugged cast construction designed for heavy-duty industrial shop use. Rated 15 amps 125-250 VAC; 1/2 HP 125 V or 1 HP 250 V. OSHA orange color. Pedal 4"W; 0/4 3"Hx8"L; 9 lbs sh. #HFSN-53-SYN, NW, \$29.95

455 KHZ BFO



PERMEABILITY-TUNED 455 KHz BFO COIL from R-392 receiver. Originally used with 5-55 pf variable capacitor but fixed cap may be substituted. Oscillation without parallel capacitor: 452-480 KHz. Good basis for BFO for any receiver with IF in 450-465 KHz range; with schematic. 3.3"x1.5" dia, 1 lb sh. #BFO-T602/R392, used, \$14.95

455 KHz IF AMP from R-392, five IF transformers and six 26A6 tubes w/shields; connector cut. 3x4.8x9.8, 4#, #IF-R392, used, \$12.95

990-1040 MHZ CAVITY AMP

CAVITY AMPLIFIER in grounded grid configuration for 990 to 1040 MHz. Has 2C39A output tube and was originally used in pulse service with 200 watts input and 1500 watts out from 3500 V pulsed plate voltage.

Input circuit untuned and output tunable by adjusting variable capacitors; BNC connections. Similar to cavity amp in UPX-6 transponder. 3.5x4.8x3.5, 4 lbs sh. Unused w/info, \$32.95

COLLINS 208U-3A



COLLINS 208U-3A POWER AMPLIFIER automatically tunable linear PA operates over 2.0-29.9999 MHz SSB-AM-CW; output 2.5 KW PEP using 4CX5000A tube driven by two 4CX350A tubes. Requires RF input from 0.025 to 0.1 watts for rated output; upto 2 W input acceptable. Tune time 6 sec nominal, 10 sec max. Other features: Internal Gain Control, Automatic Load Control, & Trans-

mitter Gain Control. Has Collins URG-II compatible modules 333H-2 Electronic Control Amp, 309F-1 Digital to Analog Converter, 915V-2 Amp Control, 652J-13 Power Supply, 599Z-1 Test Panel, and 915X-1 Control Monitor. Input imped: 50 ohms, max VSWR 1.3:1. Output imped: 50 ohms, max VSWR 3:1. Power input: 200-250 VAC line-to-line, 3-line & ground, 3-phase 30 amps 47-63 Hz; 1200 W Standby, 9100 W single tone CW @ 2.5 KW. Includes manual copies for all components except 915X-1 & 599Z-1. 72.5x32.6x31; 1020 lbs sh. USED-NOT TESTED, less 4CX5000, \$4200, \$3200.

NICKEL-CADMIUM



MILITARY NICKEL-CADMIUM BATTERY PACK, four D-cell batteries in plastic pack produces 4.8 V 3.2 Amp-Hr; 3/80 date code. 3.5x 5.5x1.5, 3 lbs. #4D-2704, UNUSED \$34.95 \$7.95

SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6x6x5.5 enclosure with 6" cord and RCA plug. White & black plastic per pic; 4 lbs sh wt. #ER-FL-SFK-FR NEW \$3.95/pr SPEAKER WRAP for assembling 10x20x4 walnut-grained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SFK-ENC, 2/\$2.00 3 X 5 SPEAKER, 2 watts with 1 1/2" dia magnet. Specify 8 or 16 1/4 W; 1 lb., \$1.35; \$95/100 ***** 100 - 500 LOT PRICING available on all above.

SIGNALING SPEAKER

SIGNALING SPEAKER ASSEMBLY for intercom-PA; includes 8" dia cone w/3" dia magnet, 12.9" dia white ceiling & 70.7 V line transformer rated 0.5/1 1/2 W watt 81/84/87/90 DBA 400-4000 Hz. 6 lbs sh. Soundlier #945R, NEW, \$9.95

TRANSISTOR AUDIO AMP

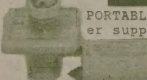


TRANSISTOR AUDIO AMPLIFIER w/5-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phone cartridges. Other possible uses as homebrew receiver, intercoms, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Req 6-9 V AC or DC; with schematic. 1.1x2.1x3.1, #ER-10-1231 NEW \$2.95; 2/\$5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE.

PARKING METER

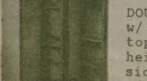
ELECTRONIC PARKING METER with LCD readout of Time Remaining plus red EXPIRED flag. Takes nickels, dimes, and quarters at rate of 6 minutes per \$0.05; Requires 5 VDC. Could possibly be modified to turn-off TV or video game after time expired. 7x5.5x4, 3 lbs sh. #EPM-60, 60 minutes, used-excellent, \$41 \$9. #EPM-120, 120 minutes, used-excellent, \$15.

EMERGENCY STROBE



PORTABLE STROBELIGHT with DC exciter supply; mil-designed for life rafts but is great emergency item for any body's car, boat, etc. Operates from 3 to 28 VDC 500 MA. 1.5"x1.3" dia lamp mounted on plexiglass base w/Velcro strip; base slides into mast mount that will fit 1.3" dia pole. 60" cord between lamp & exciter; power connector can be changed to car lighter connector. Lamp & mount 6"Hx3.5 x3.5, 3 lbs. #SDU-30/E, used-CHECKED, \$22.95 FLASH Lamp only for SDU-30, #FL-SDU, \$12.00 LIGHTER DC CORD & PLUG, 15'. #LI-C15, \$4.00

DOUBLE RACK



DOUBLE RACK EQUIPMENT CABINET w/ rear doors, castors and two top 10" dia fans. Full panel height each side: 61.5". Blue side panels; steel constructed. O/a 74.5"H x 45"W x 30"D, 300 lbs sh. #2RK-1962, USED, \$175. #3RK-1962 TRIPLE RACK, similar to above but 3 racks; 68" wide, 450 lbs sh. USED, \$250. #PAN-PAN VENTILATING PAN PANELS mount into above racks; 5.5"Hx19"Wx21"D. 115 VAC 60 Hz; 30 lbs. USED, \$35. (\$25 if purchased w/rack)

VARIABLE ATTENUATORS



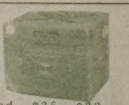
VARIABLE 6-STEP ATTENUATOR, ladder network in 10:1 ratio. Attenuates 0.1 V down to 0.1 UV; 50 ohm impedance, BNC input and output connections; shaft 3/4"x1 1/4" dia with gear drive. Silver plated; p/o 0.01-50 MHz sig-generator. 3.1x 3.8x2.3, 3 lbs. #AT101/URM25, used, \$19.95

CASES & CABINETS

ALUMINUM ENCLOSURE & frame from antenna coupler. Adapt as-is or re-work; 7.5"Hx10"Wx10"D & removable 4.5"x2.5"x3"D front antenna insulator. Cut-outs for 1.8" meter and two connectors; 8 lbs. #ENC/180L3, \$7.00



LARGE ALUMINUM TRANSIT CASE with rounded corners, hasp fasteners and carrying handles; 20.8"Hx28"Wx17" dia including 6"H top. Spot welded compartments plus two nesting trays; 66 lbs sh. #CY-3700/PRC-47, used, \$35. \$28.



INSTRUMENT CABINET for HP-3550 test set; adapt to other uses. 7.6"Hx 19"Hx9"D & 4"D cover less 1" overlap; three 6"Hx5"W compartments; w/fasteners & strap; 17 lbs. #CS-HP3550, used, \$35 \$28.



STORAGE CASES

PLASTIC STORAGE CASE, rugged but light with hinged top, hasp fastener, and recessed top grip. Two glued spacers; interior 7.5x6.3x5.3. Handy item for shop; 2 lbs. #CS-PL-SR, used, \$2.25; 2/\$3.50



FIBERGLASS CASE with carrying handle and six hasp fasteners; lid not hinged. Lower section 17.5x8x9; cover 3.5" deep. Has fittings and rubber shocks to be removed. #FIB-SR-684 11 lbs sh; used, \$7 ea; 3/\$15.



PROJECT CASE

CAST ALUMINUM CASE with toggle cover screws; rugged construction allows this 8.5"Hx4"Hx5.5"D case to offer serious protection of valuable items when used for storage or as enclosure. Originally part of GRC-109 RX/TX/PS; 5 lbs sh. #CS-GRC109, used, \$10.00

PROJECT ENCLOSURE

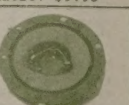
STEEL ENCLOSURE with metal feet and hasp fasteners. 6.5"Hx9.3"Wx5"D; 5 lbs sh wt. Used. #ENC-RM-39, \$3.00 ea; 2 for \$5.



OSCILLATOR

TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 MHz with 75°C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) crystal (not supplied). Has external oscillator input plus tuning meter & oven output. Requires 12-18 VDC regulated for oscillator; 22-39 VDC 1 amp for heater. W/BNC and SMA RF connections; DEC-9B plug for power. Part of GRT-21/22 xmitters. 6.5x2x3.3, 3 lbs sh. #OSC-8004290G1, used with schematic, \$9.95

MAGNETIC RING



3.5" dia x 5/16" thick MAGNET with 1.9" dia open inner circle has about an 8 lbs lift capacity. 5" dia metal casing with mount flange protects and isolates the magnet; two wires attach to spring-loaded brush contacts. Useful as magnetic portable antenna mount or in robotic, audio, or science projects; 2#. #MAG-22, \$2.50; 4/\$8.00

R-390A/URR HF RECEIVER



R-390A/URR RECEIVER famous military set covers 0.5 to 32 MHz AM-CW-MCW in 31 one MHz bands read directly on mechanical digital counter. 455 KHz final IF; has four Collins mechanical filters allowing 2-4-8-16 KHz selectable bandwidth. Calibration points every 100 kHz; also BFO, AGC, dial locks, 500 ohm audio out, Line and Carrier Level meters. Rackmount; no covers. Requires 115/230 VAC 60 Hz. 10.5x19x16.8, 95 lbs sh. LESS METERS: Used-repairable, \$200. Checked, \$325. MANUAL, maintenance, partial-repro, \$15.00

R-390A "AS-IS", less meters, 3PT7, BFO and covers; "visually inspected" only, \$150.00

HF RECEIVER AMPLIFIER

HF LINEAR RECEIVER AMPLIFIER, 2 to 30 MHz dual channel solid-state unit amplifies RF signals for receivers to "pull in" the weak stations for the shortwave listener. Each channel is capable of 1 to 1.5 watts with gain of 20 DB. Ideal basis for QRP projects, receiver pre-amps and excitators. Tuned circuits could even be put between the cascaded channels. Each channel consists of plug-in modules: input bandpass filter, preamplifier, power splitter (2 emitter followers), power amp, and monitor amp. TO-5 style transistors; connectors are TNC but could be replaced with single hole mount BNC. Aiken mfg; schematic not available. Requires 115 VAC 50-400 Hz; 3.25x19x19, 30 lbs sh. #AE-3300-42889, used-repairable, \$125 \$99.50



SUNAIR 1 KW AMP

SUNAIR GSL-1900A 1 KW POWER AMPLIFIER with PS-1900A power supply; 1.6-30 MHz, 8 l KW PEP and average using 4CX1500 tube. May be tuned automatically, when used with GSB-900 SSB transceiver or GSR-924 exciter or tunable locally. RF drive required: 40 W max. Preg-bands 1.6-2, 2-3, 3-4, 4-6, 6-9, 9-13, 13-20, 20-30 MHz. Meter 6 switch monitor circuit voltages & Status Fault indicators. Interconnect cables/plugs not available. Requires 115/230 V 50-60 Hz. GSL 14.3x18x21.8; PS 9x18x21.8; 225 lbs sh. USED-not tested w/manuals, \$1975 \$1800.

GCU-1935 ANTENNA COUPLER for GSL-1900A, 12x11 x23, 52 lbs sh. USED, \$425.00 w/GSL purchase.

R-390A R-392 R-648 PARTS

REPLACEMENT ASSEMBLIES & PARTS for the popular military receivers R-390A (A), R-392 (B), and R-648/ARR-41 (C). SPECIFY receiver type and chassis designations of parts!

POWER SUPPLY without tubes	\$30.00 (A)
AUDIO SECTION:	\$30.00 (B), \$15.00 (C)
CRYSTAL CAL CHASSIS,	\$30.00 (B)
CRYSTAL OSCILLATOR (less crystals)	\$20.00 (A, B)
DYNAMOTOR POWER SUPPLY,	\$20.00 (C)

RF AMPLIFIER SECTION,	\$15.00 (C)
RF DECK, complete:	\$95.00 (B)
RF/IF TUNER LESS VFO,	\$90.00 (C)
RF OSC ASSY LESS CRYSTALS,	\$15.00 (C)
SPECTRUM GENERATOR,	\$15.00 (C)
VFO, (COLLINS):	\$60.00 (B)
VFO, (NOT COLLINS),	\$40.00 (B)
3PT7 (RT510) BALLAST f/R-390A, NEW,	\$17.50
POWER TRANSFORMER only, used,	\$20.00 (A)
AUDIO TRANSFORMERS,	\$5.00 ea (A,B,C)
BEAT FREQUENCY OSCILLATOR,	\$20.00 (A); \$15.00 (B)
COUPLER, OLDMAN, small only,	\$4.00 (B,C)
CRYSTALS, BAND, \$10 ea (A,B,C); 5/\$35 per Rx	
CRYSTAL, 200 KHz CAL,	\$10.00 (A,B)
DIAL, COUNTER	\$15.00 (A,B,C)
FILTER, MECHANICAL 9.4 KHz,	\$25.00 (C)
"", MECH, 2 KHz,	\$35.00 ea (A)
"", MECH, 8 KHz, \$27,	16 KHz, \$20.00 (A)
GEARS \$39 or \$21, \$6 (A);	others, \$3 (A,B,C)
GEAR CLAMPS, large \$3,	Small, \$1.50 (A,B,C)
HANDLES per pair,	\$7.00 (A,B,C)
KNOBBS, small or medium size,	\$1.50 (A,B,C)
"", MHz/KHz large, delete:	\$4 (B); \$5 (C)
POTS: RF, IF, AUDIO GAIN,	\$2.00 ea (A,B,C)
RF-IF TRANSFORMER (specify #):	\$8 ea (A,B,C)
SLUGS only (specify #),	\$3.00 ea (A,B,C)

R-390/URR HF RECEIVER, predecessor of the R-390A, but does not have mechanical filters. Function switch has SQUELCH position; Collins or Motorola-made for Collins is available. Requires 115/230 VAC 50-60 Hz; LESS METERS & COVERS. 10.5x19x17.3; 92 lbs. (UPS in 2 packages.) Used-repairable, \$180. Checked, \$300.00. SERVICE MANUAL f/R-390 partial repro, \$15.



225-400 MHZ DETECTOR

225-400 MHz DIRECTIONAL POWER DETECTOR used in AM-6155 UHF power amplifier. Rated 65 watts forward; 15 watts reversed. Forward/reversed DC output proportional to output/mismatch; sub-mini connectors provided. "N" RF connections; 4.5x1 x1.3, 1#. Coaxial Dynamics #3023, used, \$17.

BIRD 4162D BIRD 4162D RF POWER MONITOR, rated 220-405 MHz 40 W. Measures incident and reflected power; VSWR 1.1:1 max. Usable over 145-500 MHz. Output 100 uA @ 5K Ω . RF connectors; output C, input BNC. DR-9 for DC outputs. 1.8x4x1, 1#. NEW, \$24.95 \$20

DUMMY LOADS DA-437 DUMMY LOAD, rated 50 watts continuous into 50 ohms. VSWR 1.5:1 max; 220 to 1000 MHz. Non-ohmic; "C" RF conn. 3x6.8x3, 4 lbs. USED \$22.50 \$20

SUNAIR HF-SSB RECEIVER

SUNAIR GSR-920 HF RECEIVER, rugged solid-state synthesized unit operates over 1.6 to 30 MHz LSB-USB -AM-CW-1SB using six decade ranges in 100 Hz steps (284000 channels) plus VFO. Built-in Preset selector with Increase-Decrease control provides sensitivity < 1 uv. Also meters for LSB and USB, speaker & phone jack. Controls for Volume, RF Gain, OFF-Local-Speaker-Remote-Both. Manual not available. Requires 115/230 V 48-65 Hz or 12/24 VDC 7/3 A. 6.1x18.5x18.3, 47#. USED-operational, \$990 \$825

COLLINS PRESELECTOR

AM-4823/U HF PRE-SELECTOR-AMPLIFIER Collins-made unit is automatically-tuned, sharply selective, active bandpass filter for receivers in 2.000 to 31.999 MHz range. Allows normal receiver operation in strong RFI environment of upto 200 Vrms at any frequency and amplifies weak signals in pass band. C-7715 control unit has mechanical digital readout and can be detached and operated remotely upto 150 feet away. Selectable bands 2-3.999, 4-7.999, 8-15.999 & 16-31.999 MHz. Selectivity: bandwidth @ -6 DB within +/-1% of resonant freq. Sensitivity: 3.66 uv for 20 DB S/N in 3 KHz bandwidth. Gain 8 DB min. Input impedance 50 ohms; type C RF connections. RF overload protection operates at not less than 500 Vrms RF input +/-10% off-frequency. With power connector and manual copy. Requires 115 VAC 50-60/400 Hz; 5.2x19 x16.5, 44 lbs sh. USED-REPAIRABLE, \$395.00



CV-2910A/SPS-48A FREQUENCY CONVERTER, has two Narda 2825-10 2-4 GHz directional couplers, three 2-6-2 GHz attenuators (15 DB isolation), filters KAL 6B340-312/18N (312 MHz c-f) and EAM LT2038, Microtech coax switch; all "N" connections. Also one WJ MX-12 mixer w/SMA plus other unidentified components. P/o military X-band radar; no info. 7.5x21x12, 22#. USED, \$135.



R-390A MODULES

VARIABLE FREQUENCY OSCILLATOR from R-390A HF receiver with 5749 tubes; various mfg (no choice); 4x3x7.5, 4 lbs sh. #VFO/R390A-O/H, GOVT-RECONDITIONED, \$45.00 ***** IF DECK from R-390A with BFO, four Collins 455 KC mechanical filters 2-4-8-16 KHz, and tubes except no RT510 ballast; 4 lbs. USED: #1F/390A, "AS-IS" but "good" filters, \$100. *****



RF AMPLIFIER DECK removed by the military from R-390A receivers. We are selling them "AS-IS" for parts or as possible spare for your working R-390A. Includes front gear assembly, set of RF transformers with slugs and slug racks. LESS tubes, crystal oven & counter. 9x12x16, 18# #RF-R390A-93, "AS-IS", \$35. *****

3PT7 (RT510) BALLAST TUBE f/R390, NEW \$17.50

ARC-51BX UHF TX-RX

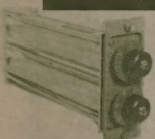
RT-742/ARC-51BX UHF AIRCRAFT TRANSMITTER, 225-399.99 MHz AM in 3500 available channels, 50 KHz spacing; also has guard channel. Output 16 watts min. RF impedance 52 ohm input & output. Audio and mic impedance 150 ohms. Includes ID-1003 SNR indicator; separate control box necessary for function & frequency selection (see below). Uses tubes 4/70T7 and 4/754; requires 27 VDC 13 amps. T9.5x15.5, 35#. USED, \$250.00 ***** C-628T/ARC-51BX CONTROL BOX, preset channel feature; 4.9x5.8x4.3, 6#. USED, \$50 w/set.

UHF POWER AMP CAVITY

POWER AMPLIFIER CAVITY from AM-1563/URC power amp, part of SRC-20 225-399.9 MHz 100 watt radio set. Uses two 4CX250K tubes in 11.5" L x 7.5" dia silver-plated cavity. Also low pass RF filter with 400 MHz cut-off, directional coupler, and two SPDT coax relays with BNC connections. Has coarse frequency dial plus mechanical digital counter driven by 115 VAC 60 Hz motor for tuning. Required 2000 VDC, 6.3 V fil. No further info. 7.3x18.1, 50 lbs sh. USED, \$90.50 \$79.50



TWIN CAVITY FILTERS



TUNABLE TWIN-CAVITY BAND-PASS FILTERS, gold-plated cavities have tune knobs, dials, and rear N-connections. Designed for military TRC-24 radio system for specific frequency ranges; usable and/or adaptable for civilian purposes. 7x2.5x9.5, 8 lbs. Used, \$22 each:

F-196/U 184-205 MHz	F-199/U 224-254 MHz
F-200/U 254-284 MHz	F-201/U 284-314 MHz
F-203/U 344-374 MHz	F-204/U 374-404 MHz

* F-197/U 205-225 MHz, unused, \$30.00 *

PHONE PATCH



VOX-A-PHONE, functions as telephone patch unit, voice-activated switch to key a transmitter and can be used as "hands off" remote mic in NORMAL mode. In effect permits relaying of telephone conversations via radio and vice versa. Connects to mic and speaker jacks of a transceiver and telephone handset is placed in unit's cradle and is acoustically-coupled to transceiver. Telephone volume automatically controlled; transmit volume manually. 3 minute timer starts upon patch connection and tones when 20 seconds remains in patch period. Some jack re-wiring may be required. 4x1x1x1, 6 lbs sh. #VOX-PHONE, NEW \$55. \$44.

TA-1/PT TELEPHONE

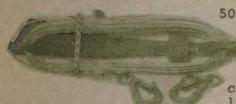
TA-1/PT TELEPHONE, sound-powered unit requires 2-conductor field phone wire connected to another TA-1 for communication without batteries. Palm-operated generator provides approx 100 V to "buzz" signal another phone; also visual indicator. Has coil cord with push terminals for wire hook-up and plastic carrying case. 8.5x3.5x3.5, 4 lbs. USED-CHECKED, \$35 ea. 2 for \$60.00

TS-10* SOUND-POWERED HANDSET w/ 66" cord and two clips for attaching directly to field wire or terminals; does not have signalling capability. 5 lbs sh. USED-CHECKED, \$37.50

J-668/GRC JUNCTION BOX, used with R-392 & T-186/GRC-19 in GRC-46/VRC-29 RTTY system. Functions as terminating and interconnect piece in system. Has meters 0-100 MA DC and 0-50 VDC, MAIN POWER circuit breakers, BIAS 30 MA & LINE 60 MA Adjust, ON-OFF switches for TTY, Lights, Blower, Crypt, and all connections for system; U-79 connection for TRANS control. 6x16x7, 16#. Unused, \$45.



STEEL GUY ASSEMBLY



50 foot 3/16" steel braid wire with 2 heavy-duty snap hooks on 17" lg steel bracket. Includes locking pulley and tension

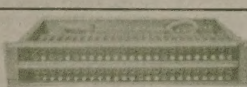
adjustor; flanges for storing guy. Designed for military antenna or other wire support uses; 8 lbs sh. #SMD-423629, UNUSED, \$16.95

EQUIPMENT GLIDES

Military quality EQUIPMENT GLIDES for rack mounting; 2"W x18"L; chassis slides have 21" travel. Load rating approx 100 lbs; 6 lbs sh. #GL-1821, used, \$11/pair

MX-991/U FLASHLIGHT

MX-991/U FLASHLIGHT official rugged right angle military type made in USA. Operate from two "D" cell batteries (not included). Clear diffuser, red signal, and white opaque spare lenses store in handle; metal belt clip. O.D. green plastic; current issue, 8.3"x2" dia. NEW \$6.75



INTERBAY TRUNK MODULE, a jack strip with 24 pairs of phone plug receptacles with indicator lights. Also four Cinch 25-contact in-line plugs on short cables. 3.5x19x8.3, 15#. #CSA-2901, USED-CLEAN, \$20.

TA-954/TT TERMINAL

TA-954/TT NON-SECURE DIGITAL VOICE TERMINAL used in Tri-Tac comm-system; 4-wire set xmits and receives diphasemodulated digital voice and loop signaling info at 16K or 32K bits. 125 ohm line impedance 125 ohms; range 4 km using WF-16 field wire (no stock). Requires 24-56 VDC. Tone pad has characters 0-9, FO-F-I-P-R-O-C; also Volume L-H Ring - Receive & H-250 handset. Plastic case is EMI/EMC static protected. 7.3x4.5x10, 8#. USED-repairable, \$85. \$65



TA-341/TT TELEPHONE SET push-button 4-wire unit designed for use with tactical switches using four C-cell batteries; usable in conventional point-to-point telephone line (plug may need changed) Range >3.2 km. Signal out 900-3400 Hz digital tone; 90 V 20 Hz signal in. With case; 4.5x10.5x10.5, 10#. USED \$40.50 \$39.50

TA-312 FIELD PHONE

TA-312 FIELD TELEPHONE rugged light-weight unit replaces famous EE-8 field phone and is usable with them. Includes Q-42 crank generator, BZ3 clocker call signaler, H-60 handset, and canvas carrying bag w/ strap. Requires 2 D-cell batteries (not supplied.) 12x7x4, 12#. Used-checked, \$25. \$65 MANUAL for TA-312, partial repro, \$8.50

WINDSPEED BOX

ID-642/GM WINDSPEED INDICATOR, part of airport wind/speed system. Has two 4" dia dual scale meters one marked CROSSWIND LEFT/RIGHT and the other HEADWIND/ TAILWIND. Each has 50-0-50 / 25-0-25 MPH indication and Range switch. Operable in direct mode from a DC PM motor (not supplied) or in time mode for 0.5, 1, 2, 3, 4 or 5 minutes to determine average speed. Time mode requires batteries 6/BA-416, 2/BA-404, BA-261 (not supplied) or other source of +22.5/45/67/90/135 V, 1.5 V, 22.5 V. Resistor values could be changed to give more sensitivity. In hinged aluminum case; 16x16x9, 35 lbs. Used-excellent, \$40. BA-416 BATTERY. 22.5/45/67/90/135 VDC, \$5.95

LS-166 SPEAKER

GRC/VRC SPEAKERS, each has 4" dia cone with large PM magnet & 600:8 ohm transformer housed in a cast-aluminum case with cable and audio plug. 5.5x3.3, 5 lbs. Used:

#LS-166 with U-77 plug for GRC-3 to 8 radio, R-392, GRC-106, etc. USED \$16. #LS-454 w/U-229 for VRC-12, etc. UNUSED \$28.

C-847 SPEAKER BOX



C-847 SPEAKER CONTROL BOX, originally part of VRC-19 VHF radio set but with 8 ohm 4" speaker, C-847 is usable in a variety of audio communications applications. Has Speaker ON-OFF, Volume, Squelch and xmitter Preset Freq select for VRC-19. Aluminum cast; flanges for wall mount. 5x7.5x2.3, 8 lbs sh. Unused, \$18.95

LS-103 P-A SPEAKER



LS-103/TIQ PUBLIC ADDRESS SPEAKER for indoor or outdoor use; conservative rated for 30 watt output with 50-10000 Hz response. Has 16 ohm voice coil & driver plus matching transformer with taps for 250, 500, 1000, or 2500 ohm input; 19" dia horn. Mounts to 7/8" dia pipe and has lock-joint to adjust angle. Rugged speaker out-performs most new commercially-made speakers with similar "printed" specs! Driver & coil 20.5"L; o/a 26"L, 26 lbs sh. Used, \$34.50; 2 for \$60.00 MT-128A MOUNTING TRIPOD for LS-103, extends 48"-90"H. Steel, 25 lbs. Used, \$25. 2/\$42. RL-3 REEL with RD-110 wire for speaker hook-up; approx 90 ft, 5 lbs sh. Used, \$4. CY-37/TIQ WOOD CASE for storage of two LS-103's plus space for cable and other items. Ringed with hasp fasteners; 23x34x22, 85 lbs sh. Used, \$10.00

PATCH PANEL SET

SB-2244 COMMUNICATION PATCH PANEL for interconnect of RTTY and crypto equipment. Provides three signal & stepping circuits to a transmitter-distributor from a crypto xmitter. Each circuit has signal and step loop. Adjustable line current 60 ma (signal), 50 ma (step). Loop has two Loop and Set jacks plus one Miscellaneous. Also 100-0-100 MA DC Line meter, three dual patch cables and manual. Requires 120 VDC for signal & 67 VDC for step battery. 12.1x5.8x6, 17#. Unused, \$29.95

PRS-4 MINE DETECTOR



AN/PRS-4 MINE DETECTOR SET, audio frequency, mutual conductance-type used by military to detect anti-personnel & tank mines having metallic parts. Square search head attaches to telescoping handle while amplifier unit is carried on operator's back in canvas harness. Has headset for audio and meter for visual indication of metal object. Stores in 9.5x3.8x13.8 wood case. W/ tubes 1U4, 2/1U5, 5676, CK522. Requires 67.5 & 1.5 VDC; batteries not available. Good physical condition but not tested; 57 lbs. Used, \$65.

MILITARY BATTERIES

NOT RECHARGEABLE. BA-48 for Rx section of RT-77/GRC-9; 6-CD & 60 A-cells, 1.5 & 90 V, 10x2.2x4.8. 8 lbs sh. "GOOD", \$14.95; "Weak" \$4. BA-279 for PRC-8-9-10 RX-TX; 8 CD, 45 B, 45 AA, 8 C-cells, +1.5-67.5-135, -6 VDC. 5/79 dates; 8.3x2.3x8.3, 7 lbs. \$7.95, 12/\$72. BA-314 for PDR-27F, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x3.3x2.5; 18, \$1.25; 12/\$10. BA-416 f/ PDR-27C, +22.5-67-90-135 V; 10/84 date. 4.3x2.8, 28. \$5.95; "Weak", 2/\$4. BA-1277, 3 R-42R mercury cells, 1.3 V; 5/83 date. 2.4x1.3x2, 28. \$2.50; "Weak" 3/\$2. BA-1393, 12 RM-3WA mercury cells, 13 VDC; 2/82 date. 5x1" dia, 18. \$2. "Weak" 3/\$1.75 BA-4386 for PRC-25-77, 12.5 VDC; 3/80 date. 3.5x9.5x2, 3 lbs. "WEAK" only, 3 for \$5.00

Headsets Telephone Equipment Microphones Handsets



ROANWELL HEADSET w/ BOOM MIC, similar to military H-157/AIC except has push-to-talk switch w/ built-in mic amp and gain control. 4.5"x5.5" vinyl-covered cushions & 72" coil cord w/ 3 cm dia 5-pin connector. Requires 12-24 VDC; 4 lbs. #533-010
-004, NEW \$50, \$48



H-140 HEADSET w/ two 300 ohm elements in 4"x3.5" vinyl cushions, 42" coil cord, and U-229 plug. Used with VRC-12, PRC-74 radios. OD-green & black; 2#. Used, \$17.95
- - - - -
H-227 HEADSET, like H-140 except with U-77 plug. USED, \$16.95

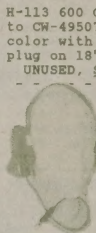


TELEX PH-11 600 OHM HEADSET, comfortable single phone set w/ 3.5" x4" vinyl-covered foam cushion and padded headband. 60" L 2-conductor cord has 3-pin Lemo FGG-1B connector which can be changed. 2 lbs USED-exc, \$16.95



MILITARY HEADSETS

H-63 HEADSET & BOOM MIC, 600 ohm receive and 100 ohm M51 mic elements; with JU-055 and 3-pin jacks. 3 lbs sh. UNUSED, \$14.95

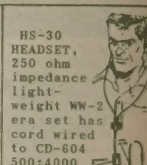


H-113 600 OHM HEADSET, similar to CW-49507 except O.D. green color with cushions and PL-54 plug on 18" cord; 3 lbs sh. UNUSED, \$22.95 \$7.95

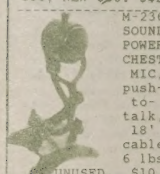
H-16 HEADSET, designed for use in high-noise areas such as tanks, etc. replacing HS-30. 250 ohm elements with matching transformers produce 8000 ohm (series) impedance. Similar to H-65 except 18" cord & PJO-54 plug. UNUSED, \$10.



HS-23 HEADSET, 250 ohm impedance w/ light weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs sh. Used, \$9.95



HS-30 HEADSET, 250 ohm impedance w/ light weight WW-2 era set has cord wired to CD-604 500:4000 ohm matching transformer and PL-54 plug; 3 lbs sh. Used, \$9.95



M-236 SOUND POWER CHEST MIC, push-to-talk, 18" cable 6 lbs UNUSED, \$10.



T-45 LIP MIC

T-45 MICROPHONE CARBON TYPE: 1000HM 500B BELOW 1 MILLI-VOLT, FLAT RESPONSE WITH PL-291 2 COND MALE PLUG, 11" CORD UNUSED, \$3.00

HS-32 STRAP HEADSET, one 250 ohm R-18 element, w/ PL-55; f/TC-5. \$8

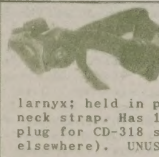
PHONE PLUGS USED: 7#-55, \$4.00
PL-35, red, \$4.
U-93A, \$4.00

HEADSET "Y" CORDS #CO-78, 7' rubber w/ tips. \$2.00
#49012-94, 4' flat rubber PL-55-type plug, \$2.00
CD-265 27" CORD w/ moulded PL-68's UNUSED, \$2.25

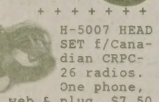
JK-33 JACK TO FIT PL-68 MIC. PLUG. Used, 3 for \$1.00

H-264/PRR-9 EAR-PLUG HEADSET w/ coil cord & 2 mm dia jack; 300 to 2500 Hz response. NEW \$4.

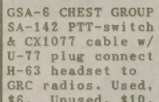
AVIATION HEADSET CORD, U-94A receptacle w/ PTT switch 5 clamp; 16' WM-85 cable, 14S-5P plug #389327, NEW, \$17.



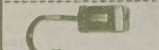
T-30 THROAT MIC, used in noisy environs such as aircraft & tanks. 75 ohm elements fit against users larynx; held in place by elastic neck strap. Has 11" cord w/ PL-291 plug for CD-318 switch cord (listed elsewhere). UNUSED, \$10.00 each



H-5007 HEADSET f/Canadian CRPC-26 radios. One phone, head web & plug. \$7.50



GSA-6 CHEST GROUP SA-142 PTT-switch & CX1077 cable w/ U-77 plug connect H-63 headset to GRC radios. Used, \$6. Unused, \$10.



CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500OHM TO 4000, USED WITH HS-30 HEADSET, 6" CORD & PL-54 PLUG. Used, \$1.10 ea
PL-55 PHONE PLUG 30" cord. Used \$1
JK-34 PHONE JACK to fit PL-55 plug Used, 2/\$1.00

MIC COIL CORD, 1-wire shielded, 2-wire not; 30"-42" #SH-CC3042, \$2.50
"EXTRA-STRETCH" PHONE COIL CORDS: #T425-MOD, 4 ft to 25 ft extension with modular jacks tan. NEW, \$3.95
#B212-LUG, 2 ft to 12 ft with terminal lugs; 4-cond., black. NEW, \$2.50

DOUBLE PLUGS, new #D178542 (WE289) for headsets, \$3 \$22PFC f/sw-brd \$3

GENERAL ELECTRIC MIC from highway patrol vehicles; PTT switch has "C" & "S" positions. Also has amplifier circuit & coil cord w/ DB-9 connector; 2 lbs sh. USED. #GE-CS-MIC, \$9.95

RCA MOBILE MIC by SHURE BROS. handheld w/ PTT switch, coil cord & 6-cond plug. 2-Tone green #5595758. used, \$7



GM DELCO MIC for mobile communications; black w/ PTT switch, coil cord & 5-pin male connector. #GM-DEL-MIC, New, \$7.

BLACK STANDARD-ARND HEADSET, older style with elements but no cord. Used, \$5. NEWER STYLE with cord, Used, \$3.00

BLACK STANDARD-ARND HEADSET, older style with elements but no cord. Used, \$5. NEWER STYLE with cord, Used, \$3.00

SWITCHBOARD CORDS

#G2-SWB-72, grey cloth-covered cord with double plug on each end; 72" L. \$6.50
#R2-SWB-72, as above but red, \$6.75
#G2G2-SWB, two grey cloth-covered cords with common double plug one end and separate single plugs on the other; 72" L. \$7.50
#B1-SWB-72, black cloth cord w/ single AE-309 0.38" dia plug each end; 72" long. \$3.95
#1-SWB-54, cloth-covered cord with PL-47 one end, lugs on the other; 54" long. \$2.50

MICROSET
ACS MICROSET OPERATOR'S HEADSET, ultra-light set fits over the ear with flexible voice tube. Has push-to-talk switch on 4 ft coil cord with dual 1/4" dia plug. Includes spare ear tips, glasses clip, and pouch; light beige color. #ACS-SM-HS, NEW, \$34.95

PLANTRONICS STARSET HEADSET, similar to above except black. #HS0110-2E, NEW, \$34.50

CONTEMPRA PHONE

CLEARANCE of modern CONTEMPRA PHONES, Northern Telecom manufacture with keypad, ringer, & coil cord. These are leftover NON-WORKING units with discolored, cracked, or scratched cases & cords. Various colors, but NO choice! Suitable for parts recovery; 5 lbs ea. "AS-IS", 3 for \$10

H-164 SOUND-POWERED

H-164 SOUND-POWERED HEAD & CHEST SET for two station communication without batteries. Has one 1024 ohm receive element on wire headband and 1024 ohm transmit mic mounted on metal chest plate with cordage and canvas straps. Includes CD-1175 96" L cord w/ PL-55 plug; 6#. UNUSED, \$30.00

PUBLIC ADDRESS MICS

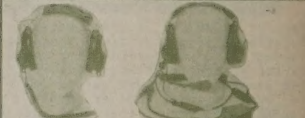
M-43 P-A MICS, low-impedance omni-directional for public address use; 150 to 4000 Hz response. Swivel mounts; UL EV 5/8" dia 27 threads/inch. Cannon XL-3-11SC connector; 2 lbs sh. Used, two styles/mfg: #M-43-UL, University Loudspeaker mfg., \$12.
#M-43-EV, Electro-Voice, \$8.95;
CX-3094 MIC CORD with mating connector for above; 25 ft long. 3106-14S-7P 3-pin male connector on other end; 4 lbs. Used, \$7.50
HT-596 MIC STAND for above with tripod base; Used, \$10.00 ea; 2 for \$16.00

R-14 RECEIVE ELEMENTS only for HS-23; USED-checked, \$5.00 ea
MX-41 2.8" RUBBER CUSHIONS for HS-23 or -33 headsets, \$2.50/pr
M-301 4" CHAMOMIS CUSHIONS for HS-23 or HS-33, \$5.00 per pair
CD-307 EXTENSION CORD for headsets with PL-54 plugs like H-16, H-113, HS-23/33, CW49507; 65" cord has JK-26 jack and PL-55 plug; 1 lb. UNUSED, \$3.50

TS-9* HANDSET with butterfly switch as used on EE-8 and similar field phone equipment; 2 lbs. USED, \$12.95
TS-9F, UNUSED, \$22.50

H-90 HANDSET, like TS-9, but w/ U-77 plug; \$12.00

JEN-20 HANDSET w/AMPLIFIED receiver for the hearing impaired; Black, white, or beige. NEW \$15.



VRC-12 COMMUNICATION EQUIPMENT designed for use with RT-246/\$24, R-442, PRC-25-77 and similar radio sets; 1000 ohm earphone impedance. A. H-251 HEADSET w/ vinyl cushions, 24" cord and U-182 plug; black color. USED, \$12. UNUSED, \$18.
B. H-161 HEADSET w/ 300 boom mic, push-to-talk switch, & CX-8652 Y-coil cord; vinyl cushions. OD-green color. UNUSED, \$40.00

H-250 HEADSET, w/ push-to-talk button, heavier coil cord, and U-229 plug. USED-CHECKED, \$17.00

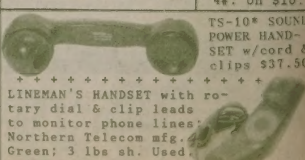
H-189 HEADSET, earlier version of above; more rugged. USED, \$18.00
H-350, same as H-251 except plug for secure connection \$22.50
H-33/PT HEADSET w/ U-77 plug; for GRC-3-8, PRC-8-9-10. USED \$17.50
M-29 MIC with U-77 plug; for T-195 T-368, other GRC-TC. USED \$12.00
M-80C MIC w/ U-229 plug. UNUSED \$14
M-52 MIC w/ PL-68 plug. UNUSED, \$8.

CD-318 PUSH-TO-TALK SWITCH w/ lock; has 7' cable w/ PL-68 plug & JK-26 Jack. Use with T-30 throat or T-45 lip mic or TS-55 STRAPS. 2 lbs. USED, \$7.00

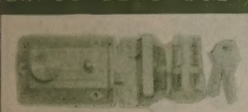
CHEST SETS T-26A un. \$7.
T-46, un. \$7.
TS-11 un. \$20
H-12, un. \$7.
PTT-switch, mic coil cord with PL-68 plug; 4#. UN \$10.

TS-10* SOUND POWER-HAND SET w/ clips \$37.50

LINEMAN'S HANDSET with rotary dial & clip leads to monitor phone lines; Northern Telecom mfg. Green; 3 lbs sh. Used, \$NT-LM-HS, \$50.00



BRASS DEAD BOLT



ANTIQUE-BRASS LOCK SET made for gov't. Includes locking assembly, jam receptacle, key cylinder & two keys; 2# #LS-264-7598, NEW, \$7.95

BRAKE LIGHT

AUTOMOBILE BRAKE LIGHT, 5.5"W x 2.8" H red lens on black plastic stand; top swivel adjusts light angle. German mfg; o/a 7.5"H max, 2# #BL-610005, \$2.95

12 VDC COUNTER

6-DIGIT MECHANICAL COUNTER 12 VDC non-resettable; black numerals on white. Rear mount flanges; o/a 1.3"Hx1.5"Wx2.5"D, 1# #E07B10DC12, NEW, \$2.95

BAGS & COVERS may be used or unused. "Used" may have minor wear, tears or discoloration:

BG-172 RUCKSACK BAG, adjustable shoulder straps for backpack carry; 13x13x10 with two external pouches 12"Lx10"H and 2x4. Also small internal pouches; 8 lbs. USED, \$12. ***** ST-138/PRC BACKPACK HARNESS for PRC-25/77 radios; some clips and/or hooks may be missing. USED, AS-IS, \$12. ***** SHOULDER BAGS with adjustable straps; 5 lbs sh. USED: BG-175, 10x8x10.5, \$6.00 CW-189, 10x9x10, \$5.00

ANTENNA ROLL BAGS for most sections & related; USED: BG-174 for MS-116 etc \$7.50 CW-206 for MS-116 etc \$7.00

GRV/VRC EQUIPMENT COVERS: CW-140 for GRC-9, used, \$10 CW-329 for GRC-3--8, NEW \$8 CW-330 for VRC-9--10 NEW \$9

FIELD PHONE FABRIC CASES: CY-1181 for RE-8, USED, \$6. CY-1277 for TA-312 USED \$7.

INTERCOM BOX

LS-147 INTERCOM BOX has 10 4 W line & 4" speaker. Controls SEND, RECEIVE, SEND, & Push-to-Talk. Tubes 6AU6, 6AQ5, 6X4 and NE-45 indicator lamp. Requires 115 VAC 60 Hz. 6.5x11x7, 12 lbs. Used, \$14.95

STOVE CLOCK

STOVE CLOCK TIMER, mechanical easy-to-read digital clock. Start-Stop clocks & 60 minute timer; 115 V 60 Hz. Panel 5x6x2.9, 3#. GE#1317675, NEW, \$4.95

LIGHTER DC CORD

15 ft cord connects to car, van or RV cigarette lighter allowing use of 12 VDC appliances throughout the vehicle; #16 wire, 2 lbs sh. #LI-C15, \$4. #LI-C3 3 ft lighter cord: good size for portable battery packs, etc. \$2.50

MERCURY THERMOMETER right-angle glass; probably for xtal oven control. Unused: #74661725, 4.5"L leg graduated 58 to 62 C in 0.1 C increments; 7" leg is mercury reservoir. \$6.95 #7461727 Mercury Switch, makes contact @ 60 C wire leads, 3.3"L legs. \$5.95

CARD SCANNER

CREDIT CARD SCANNER, uses optical system to read raised numbers of credit cards into a photo array. Small AC motor drives card through reader; w/connector diagram. 5x5x4, 3 lbs. #ECR2020, used \$4.95

LIMIT SWITCH

LOXSWITCH, industrial limit switch rated 600 V max 18 amp contact; has 3/4"Lx1/2" dia shaft. 5x2.3 x2.2#. #L100WNC-2M, \$12.00

KRAFT COMPUTER PADDLES each have 100K ohm pots, FIRE button and 4.5" cable with DB15 connector. Each 4.3x3, 4 lb. #KR820-005, NEW \$3/pr

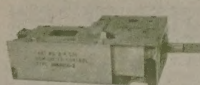
205 MM COPY LENS apertures F4.5 -5.6 6.3-8-16 on mtg board. D.D. 3" x 3"L; 2 lbs sh. #AA-L205, used, \$8.

12-DIGIT FLUORESCENT DISPLAY, 3/8" digits 0 thru 9, -, ., and decimal point. Tubes 2"H plus IC's, transistors, etc. 9x8.5x2.5, 4 lbs sh. #POS-2, \$4.95 \$3.50

12-DIGIT FLUORESCENT DISPLAY, 5/16"H characters. 1-5/16"H DG-10A tubes; 21 xistors, IC's, etc. 5.3x3.4 x3 lbs. #DP-3204, \$4. \$3.00

INDUCTOR PC BOARD has 3 200 uH and 2 1200 uH inductors 3/4"H x 1-3/8" dia; also 3/4000 pf 20 V, 3/3000 pf 25 V axial caps, xistors etc. 3 lbs. #54-014535, \$2.

IMPRINTER LOGIC with three each P&B JRA-1012 SPST 12 VDC reed relays, regulators, & 0.02 mf 1 KV discs; also 2/C4003. 2 lbs sh. \$3.00



HONEYWELL DEHUMIDIFIER CONTROL as used in home dehumidifiers. Plastic element tube senses humidity and "opens" normally-closed 120 VAC contacts; has variable control. 1.8x4.5x1, 4 lbs. #H46A1103, unused, \$2.95

#ED63919-31 AMP-LIFIER, 4 GHz uses 9EA168 tube with 3/8" dia screw port adjacent to tube grid cap; silver-plated brass 5.8x3.5x1.4, 4 lbs. USED \$27.95 CONNECTOR for above, \$3.00

LIGHT INDICATOR FUSEHOLDERS 1/3AG fuses; 1.6"D behind panel. O/a 2.9"L; used: #FU-HKK, 22-33 V amber, \$2. #FU-HKL, 115 V, clear \$2.50

KEY ALARM

ALARM CONTROL PANEL TROL PANEL w/5-position key lock wafer switch, SC628 Sonalert 6-28 V 3-14 ma, and five panel lights. 11.3x4x8 2 lbs. #ALRM-SC628 w/key, \$7

RHODES 60 SEC TIMER, times from 2 to 60 seconds; bell signals time elapsed. 3" dia plastic case; 1 lb sh. #56414, NEW, \$2.50 each.

PANEL METER

DATA TECH 0-20 VDC DIGITAL PANEL METER, uses Sperry 7-segment 0.5"H readouts. 10 Meg ohm imped.; auto-polarity, OVP. Requires 115 V 60 Hz. Units have "weak" displays and/or "bad" segments. 1.9"Hx4"Wx5.5"D, 3 lbs sh. #5313-220, "AS-IS" \$10.00

GALVANOMETERS

Used in test bridges to indicate slight variations in current; 1 mm increments: LEEDS & NORTHROP #18876, 10-0-10 scale, sens 0.1 uA /mm, CDX 10K ohms; 500 system res. Period 4 sec; w/ Balance "lock" Behind panel: 4"D x 1" dia; front 3"H. NEW, \$24.95 \$25.

GALVANOMETER 15-0-15 scale, sens 1 uA/mm. Meter coupled to mirror for photo-optic read. No Balance "lock". Behind panel 3"D x 2"D; front 2.5" dia, 2#. #2ALV-126667, \$22.95 \$18.

WEAVER D6 SCOPE

Quality 6 power scope fits common rifle mounts. Unfortunately scope is without cross-hairs. Still a nice low-cost spotting scope! 12.3" long, 2#. NEW, \$14.95

PARTS GALORE



TELEMETER PROGRAM SELECTOR part of an obsolete pay TV system which featured pre-recorded tape program review, coin deposit register mechanism, and audio amplifier-power supply with 4" speaker. Generates 8 Mhz signal to trigger mechanism and 35 Mhz video output. Tape magazine has recording head and plays 66' of 1" tape in continuous loop. Mechanism has 5 RPM Cramer 115 VAC motor plus other motor, gears, etc. Power supply output 150 VDC 100 ma and 6.3 V 3 amps. Tube line-up 3/608, 6BE6, 6BA6, and 12BH7. Cabinet 15x7x7, 21 lbs sh. Our bargain price is worth the tape magazine, coin mechanism, power supply, or tubes alone. NEW, \$9.95

TIMER BONANZA

CARTRI-VISION TIMER CONTROL, part of early home video system; cheap gizmo with interesting parts: 115 VAC timer motor with upto 8 hr delay and SPDT contacts, 18 V 200 ma transformer, 12 VDC SPDT relay, SPDT and 4PDT slide switches, etc. 3.9x9.5x2, 2#. #CV-TC87, \$1

LEXICON LAP-TOP WORD PROCESSOR (circa 1982) uses Z80 CPU; 14 KB word memory for 20 separate files plus 300 baud modem. Has "chicklet"-style QWERTY keyboard & single-line LCD display. Requires 115 V 60 Hz or DC input. W/modem cable & battery charger. Line display OK, but function LCD illegible. 5.3x10.5x1.8, 4 lbs. #LEX-LT-WP, unused, "AS-IS" \$18. Operator-book \$5 extra

TS-268E CRYSTAL RECTIFIER TESTER, measures front and back resistance and back current of IN-21-23-25-26-78 xtal diodes on 2.5" MA-meter. Requires D-battery. 7.5x4.4x5.8, 6 lbs. Used \$16.95; MANUAL, \$8.50

AY-1 AUTOSYN MOTOR AS USED IN I-81, I-82 ETC. DIRECT REPLACEMENT. \$5.95

PROJECT CHASSIS

ALUMINUM PROJECT CHASSIS 2"Hx7"Lx5"W with two BNC connections and two pair red-black test lead receptacles; marked "Handset Breakout Box"; 3 lbs. #CH-HBBX, NEW, \$5.95

SPARES BOX

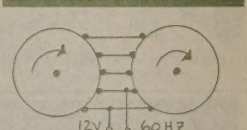
CY-684 EMP-TY SPARES BOX for GRC-3--8 radio; can hold 26/7-pin mini, 5/GT-tubes & vibrator. Aluminum w/hinged top & latch; 3x10.3x5, 3 lbs. USED, \$7.00

6-OUTLET STRIP

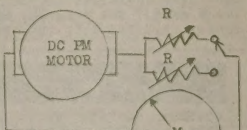
GROUNDING 6-OUTLET AC STRIP with lighted ON-OFF, RESET, and long 15' cord. 13x1.8 x2.5, 3 lbs. #ST-6AC, used, \$5.95;

3" DIA 0-360 degree RADIO COMPASS INDICATOR, adaptable for wind direction and antenna position use; 2 degree increments. 2 lbs sh. #ID-91/ARN-6, used, \$10.00

WIND DIRECTION



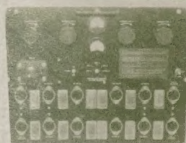
WIND DIRECTION INDICATOR using 26 V 400 Hz selsyns. Design your wind vane and indicator for monitoring wind direction from indoors. Two selsyns required for project; 2 lbs. #WIND-SEL, used, \$9 each



WIND SPEED INDICATOR using a 24 VDC FM motor as a generator, a 1 milliammeter and a resistor range scaler so that wind speed can be monitored indoors. We will supply the FM motor and a 3 1/2" rd 0-1.0-50 scale (FS-1 ma) meter; you design the rest. #WS-MOTOR & METER, \$9.95

I-81 & I-82 ARMATURES ONLY #3H2716/A1, UNUSED, \$3.95 #I-82 GLASS ONLY, \$2.00

DC LOAD PANEL



"loaded" with prime "clean" parts for DC power projects!
Panel includes:
* 0-30 VDC 2.5" METER
* 0-30 AMPS DC METER
* 4 each 50 MV SHUNTS
* 4 RHEOSTATS:
2 ea 225 W 3 ohms
2 ea 150 W 2 ohms
* 12 CIRCUIT BREAKERS:
6 ea 32 VDC 8 amps
6 ea 32 VDC 20 amp
* 12 ea 1N1184 DIODES
* 4 ea 2.4" dia KNOBS
and other parts. Panel is sold "less its On-Off and 4 STA selector switch. 18.8x23x6, 30 lbs. #DAV-LCP, \$48.50.



SOLDERING KIT

WELLER SOLDER / DE-SOLDER STATION with TOP-240 48 W pencil iron, eight solder tips from 3/64" to 1/8" wide, 600 or 700 F; six desolder tips with orifices .038" to .090"; and 2.5"H x 13"Wx4"D steel carrying case. Requires 115 VAC 60 Hz; 7 lbs sh. #WTCCK, UNUSED, \$69.50

SCR HEATSINK ASSY

SILICON RECTIFIER BRIDGE, single phase half-wave; GE #014114CK or equivalent. Rating approx 500 V 35 amps. 7x6x5, 4 lbs sh. #KS-19576LL, used, \$32.95 ea. \$4.95

9.5 VDC ADAPTER

AURORA TOY WALL TRANSFORMER, changes 120 VAC to 9.5 VDC 250 ma output. 6' cord with slide lugs; 2 lbs sh. #AUR-95V34VA, 2 ea. \$20.00 / 2 ea. \$40.00
CERVCO AC ADAPTER, 11.5 VAC 175 ma output; 6' cord w/o lugs. #CER-11.5V, 2 for \$30.00

750 W INVERTER

ROTARY INVERTER, output 115 VAC 400 Hz 1 phase 750 VA from 28 VDC 60 amp input; Leland or equal mfg. 12x9.5 x7, 42 lbs sh wt. GOV'T-RECOND, \$69.50

COMPASS INVERTER

DC to AC INVERTER for aircraft radio compass indicators. Input 24 VDC 1 amp; output 26 VAC 400 Hz 1 Ø 6 VA; 3.3x3.8x3, 3 lbs sh. Pioneer #12117-6, unused \$16.95

PP-6241 SOLID-STATE BATTERY CHARGER for silver-zinc or nickel-cadmium types. Three independent charging units with outputs 8-16-32 VDC or 0-36 VDC in 0.1 V steps; 1.0 or 2.25 amps charge. With cables CX11971, CX11972, and CX11973. Requires 115 VAC 45-440 Hz input. 11.5x13.8x11, 46 lbs sh. USED with book, \$55.00

24 V 8 AMP CHARGER

24 VDC BATTERY CHARGER, output 24 to 30 VDC; max-charge about 8 amps. SCR and volt sensing circuits vary pulse duration to control average charge current. 120 VAC 60 Hz input; 6 ft AC cord and 5 ft DC cable with 2 battery clamps. 2.5x8.8x5.8, 7 lbs. #BC-24V5, NEW \$49.50

DYNAMOTORS

#35X073-A Navy version DM-32, \$12. D-401 used \$12.
DM-36 re-new \$15. DY-10/ARC-1 \$14.
DM-53 used \$6. DY-86/ARC-30 \$7.
DM-53 12 V \$8. PE-86 used \$12.
DM-64 used \$10. PE-94 used \$25.
D-10A used \$7. PE-133 used \$10.
DM-35, 12 V f/BC-604-684 re-new \$27
#3H1514-22 12 VDC DYNAMOTOR for WW-2 RBN receiver. Unused, \$16.
#DYN-DY88 p/o DY-88/GRC-9, output 580 V 100 MA from 7/14/29 VDC input; 15 lbs. Used, \$18.00
#2C4312/B50 HINGE SET f/DM-21, \$7.

5 VDC 20 AMP

HEAVY DUTY SWITCHING POWER SUPPLY with "heavy duty" outputs +5 VDC 28 amps, +12 V 4 A, +24 V 1.5 A from 115 VAC 60 Hz in. W/ ON-OFF switch, 3-prong input connection & 16-pin Molex output connector. Sold "AS-IS complete, no schematic" 2x5x13, 6 lbs sh. #SWPS-528, \$14.95 \$11.

12 VDC 24 AMPS

YUASA LEAD-ACID RECHARGEABLE BATTERY, rated 12 VDC 24 amp-hr; May 1993 date code. 6.3x4.8x7, 20 lbs sh wt. #NP-24-12, UNUSED, \$29.50

ALARM BELL

ADAPTABEL INDUSTRIAL ALARM BELL, 5.8" dia bell operates from 6 VDC 250 MA for non-fire use. Heavy metal cast construction w/ mount hardware; 3#. Edwards #435-6C1, NEW, \$9.95

INVERTERS

PP-2352/UR ELECTRONIC INVERTER p/o TRC-75 radio set, output 115 VAC 400 Hz 1.4 KW continuous (2.5 KW intermittent) 3 Ø with 1 Ø sinewave. Input 28 VDC 110 A. Connector not available. 7.6x7.8x19.5 52#. Used-repairable, \$95.00

SOLID-STATE HV SUPPLY output 1000 VDC 500 MA from 28 VDC 23 amp input; used in T-1958/GRC-19 xmitter. 8.5"Lx4" dia + 2" for mount flanges; 10 lbs sh. #SS-HV-T195, used, \$69.50

DY-107/AR DYNAMOTOR SUPPLY for ARC-44 radio. Output 138 VDC 140 ma, 310 VDC 30 ma, & 27 V 400 Hz 3 Ø 10 VA; input 27 VDC 3 amps. 5x9x3, 10#. USED-clean, \$37.

DY-118/ARC-38 DYNAMOTOR SUPPLY provides voltages for RT-311, -594/ARC-38A from 28 VDC 30 ma input. Output: 600 VDC 550 ma & 250 VDC 150 ma; also +28, -50, -65 V. 4.9x6.8 x18.3, 25 lbs. Used, \$35.

24 VDC 2.5 AMP POWER SUPPLY from 120 VAC input. Has volt adjust. Gov't surplus heavy duty transformer-type. 3.3x5x7.3, 10 lbs. #24PS-31196. Used-"NEEDS REPAIR", \$12.00

DY-79/PRD-1 DYNAMOTOR POWER SUPPLY for R-395 DF receiver; 24 VDC input. With 3 tubes and 2 ballasts; 10x14x16.9, 22 lbs. GOV'T-RECOND., \$75.

400 HZ INVERTER KIT removed from PP-2352; good foundation for 28 VDC to 115 VAC 400 Hz 500 watt 1 phase inverter. Includes oscillator feedback, driver, output, & regulator transformers, two saturable reactors & schematic info. Add other components to suit your power needs; 10 lbs. #KIT400HZ-500W, \$59.50 \$50.

DC CONVERTER

ADETECH DC to DC CONVERTER, 28 VDC input; outputs 5 V DC 10 amp & +/-15 VDC 2 amp. 2.3x4.8x10.5 5 lbs. #3DD5-15N NEW \$12.95

28 VDC 1 AMP MODULAR SUPPLY on metal L-bracket removed from "unused" equipment. Has output adjust pot; requires 115 VAC 60 Hz. 4x4.5x2.5, 4 lbs sh. #EST-30-281, \$10.95

POWER CONVERTER

ASTEC DC to DC CONVERTER designed for OC mount; +5 VDC input produces 12 VDC 85 MA output. 1.2x1.5 x1, 1 lb sh. NEW: #AA7210, \$2.95 ea; 2/\$5.00

20 HZ RINGER

20 HZ INVERTER MODULE, used in telephone equipment to produce 20 Hz 65 V 50 ma ringing signal from 110 VDC 65 ma input. 3.4x2x3, 2 lbs. #E10/TA-182, used, \$9.95

3 PHASE "Y" DIODE BRIDGE p/o 200 VDC supply; 6 submodules each with ten 1N1095 diodes & 5 capacitors series-parallel. 3.3x2.3x3.7, 2 lbs #1540/ARCS8, used, \$6.00

650 A RECTIFIER

MOTOROLA MR1265FL RECTIFIER rated 300 PIV 650 A; with hardware. 3.3x2.3x3.3, 3#. NEW, \$17.50

REGULATOR MODULES from Sun supplies (pg 20), each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs sh. #SUN-REG-124, 12 V 4 amp, \$10. #SUN-REG-58, 5 V 8 A w/OVP; \$8.

+5V/+12 V SUPPLY

ENCLOSED SWITCHING POWER SUPPLY with 3" axial fan. Outputs +5 V 10 amp, +12 V regulated 2.5 A, +12 V 5 A Unregulated from 115 VAC 50/60 Hz input. P/o Wang equip. 2.6x5.1x12.5, 7#. Astec #12690, used-clean, \$24. \$16.

COLLINS 516E2 SUPPLY

COLLINS 516E2 DC POWER SUPPLY for KWM-2 and S-Line transmitters; requires 24-28 VDC input. Solid-state; will not power 30L1 10x6 x7.3, 24 lbs. Used, \$49.50

POWER SYSTEMS SWITCHING SUPPLY, outputs +5 V 7 amps, +12 V 3 amps, -12 250 ma, -5 300 ma from 115/230 VAC 50-60 Hz input. 7.8x4.4x1.5, 3#. NEW: #PS1558, \$29.95 \$21.

ALARM BELL SET

4" dia BELL ALARM, polished resonator provides loud "ding" when energized. Includes 115 VAC transformer with 10 V output for bell coil; 6' cord. Bell assembly 7x4x1.5, 3 lbs sh. Liberty Bell manufacture; #2004, NEW. \$9.95

TUBE SOCKETS

4X150/4CX250 sil-
ver-plated socket
Eimac/Johnson as
available. USED:
#122-115 or 2, 1100 pf bypass
w/chimney; 2.5" dia, \$18.00

4X150 DUAL SOCKET
two sockets on
4.3"x2.9" chassis
w/1.1" bakelite
chimneys; USED:
#4X150/T195, \$10.

EIMAC SK-636A CHIMNEY, new, \$7.
OCTAL TUBE SOCKET EXTENDER fits
octal tube socket & saves wear
and tear. #1189, NEW, \$2.45

U-102 OCTAL TEST SOCKET, test
points for octal tube; plugs
into socket. #4578 NEW \$2.00

U-103 LOCTAL TEST SOCKET, test
points for loctal tube, \$2.50

U TUBE SOCKETS, used/unused:
OCTAL-USED: bakelite ring mt,
\$.40 ea. CERAMIC 2-hole, \$.95
WAFER 2-hole mt, UNUSED, \$.30
6-PIN FIBER WAFER SOCKET, \$.75
LOCTAL ceramic, used, \$1.00
MINIATURE 7- or 9-pin, moulded
or bakelite, unused, \$.35 ea

ABOVE w/collar for shield \$.60
Mini 7-pin CERAMIC, unused \$.60
SUB-MINI SOCKETS, in-line, \$.75
SUB-MINI, round short-lead \$.75
SUB-MINI, round, long-lead \$.85
* JOHNSON CERAMIC SOCKETS *
#122-206 without collar;
for 8008/5C22 unused, \$.60
#244 w/collar for 8008, used, \$.4

THYRATRON SOCKET, right angle
black phenolic; #146-106 or =;
Used, \$3.00; Unused, \$.50

METAL 5/8" PLATE CAP, 2/61.00

TUBE SHIELDS for most 7-/9-pin
mini tubes (specify #) used \$4.00
TS103002 SHIELD 12AX7-size, \$.60
TS103003 SHIELD 12BH7-size, NEW \$1.

OLD METAL SHIELDS
for small base
ST-12 size 4-5-6-
7-octal pin tubes
removable top cover. Designed
to fit retainer ring on a chas-
is; 4.3"x1.6" dia. USED, \$.4

BLACK IERC-type SHIELDS, used:
#TR5015 for 6AX5-size, \$.85
#TR5020 for 6BA6-size, \$.85
#TR6015 for 5842-size, \$.95

TUBE TEST ADAPTERS for TV-7:
#E104 for sub-mini tubes, \$.5
#E105 for 829/832 etc., \$.7
#E107 for 2C39, \$.8

TEST ADAPTERS with octal base:
#1050-127 for nuvistors, \$.8
#86-060 for 7077 planar, \$.9

* TERMINAL STRIPS, unused *
4-TERM pairs, 4"Lx1.8"W, \$.50
7-TERM pairs, 4"Lx0.8"W, \$.65

AUGAT single 6-TERM PC-mount;
2"Lx0.6"W; #4PCV-06, 10/\$7.50

VARIABLE TERM-
INAL STRIPS,
pairs removable
to decrease or
increase length.
#GE-V12-32 12 terminal pairs
1.3"x3.3"Lx2"W, 1 lb. \$3.50
#BUC-V8-TERM, 8-terminal pairs
1.3"x3.9"Lx1.1"W, \$2.00

#SK-22 TERMINAL BOX, has three
13-term AN-3436 strips and two
9-term; 10/32 studs extend
thru phenolic strip and have
solder lugs, 4 lbs. UNUSED \$3.

NON-PCB AC CAPACITORS:
2 x 100 mf 240 V, 3.5"x10"H
x1.8"D, 4 lbs sh. \$12.00
7.5 mf 260 V, 2x2.8x1.3; \$2.00
10 mf 370 V, 2.8x3x1.8; \$3.00
20 mf 330 V, 2.8x3x1.8; \$2.45
50 mf 370 V, 3.5x10x1.9; \$4.80
100 mf 440 V, 2.8x4x1.8; \$3.50
35 mf 440 V, 3.5x9x1.8; \$4.80
5 mf 600 V, 2x4.5x1.3; \$3.00
5 mf 1000 V pk 2.8x6x1.8 \$3.50

Capacitors

CENTRALAB 850-
SERIES high
voltage "door
knob" capaci-
tors, 0.5" H x
0.75" dia; Used, \$.45 ea

Specif: 30, 50, 75 pf (7.5
KV); 100, 120, 140 pf 5 KV

TYPE 858, 1000 pf 5 KV, \$.8
857: 15 KV 40 or 50 pf \$10

MICA CAPACI- MFD WVDC CM
TORS used .02 600 55
in RF power .033 600 55
circuits. .005 1200 55
JAN CM-size .012 1200 55
less than .0004 2500 60
1.8"x1.6". .00022 3500 55
used, \$1.25

CM55 .001 mf 2500 WVDC, \$2.
.002 2500 \$.3
CM65 .0062 2500 \$3.50
.002 3750 \$.5

FIL-size MICA, 2.8x1.5x1:
0.000 mf 2500 WVDC, \$.400
0.0001 mf 3000 WVDC, \$.400
0.0007 mf 3000 WVDC, \$.350
0.001 mf 4500 WVDC, \$.550
0.00013 mf 5000 WVDC, \$.450

ERIE 1202 EMI SUPPRESSION
CAPS, 1 KV; used: 1000 pf
\$.75; 7000 pf \$1 ea

F3L 0.007 mf 500 VAC, \$7.50

COMPUTER GRADE

MFD	V	SIZE	PRICE
23000	7	5.5x1.5	\$.60
61000	10	4x2.5	1.50
100000	10	5.5x3	2.25
28000	15	4.5x2	1.50
5200	20	3.5x1.4	.75
40000	20	4.8x2.5	1.75
58000	20	6x3	1.60
25000	30	4.5x3	1.75
43000	30	4.5x3	2.50
54000	30	6x3	3.00
37500	35	6x3	3.25
19000	40	4.5x2.5	2.50
51000	40	5.5x2.5	3.50
4900	50	3.5x1.5	2.00
16000	50	4x2	3.25
20000	50	6x3	3.25
3500	55	4x3	1.50
10000	75	4x2	4.00
14000	75	6x3	4.25
20000	75	5.8x3	4.25
1250	180	4.5x2.5	2.00
500	200	4x2	1.65
360	250	2.3x2	1.75
3000	250	6x2.5	6.50

Buy 5 or more one type,
take 20% OFF PRICE!

ELECTROLYTIC (E)/PAPER (P)
2500 mf 3 V (E) 3.5x1, 6/51
6800 mf 16 V axial, 4/51
10 mf 30 V axial tant, 3/51
4.7 mf 35 V drop tant, 3/51
1000 mf 35 V axial, 3/51
500 mf 50 V axial, 3/51
1500 mf 63 V axial, 2/51
1 mf 100 VDC metalized 2/51
250 mf 150 V axial, 2/51
0.033 mf 200V metaliz 3/51
160 mf 250 V (E) 1.50
4.32 mf 200 V mylar, 8.60
2 mf 200 V metalized, 8.55
3x20 mf 3x250 V (P), 8.80
0.047 mf 400 V mylar, 4/51
0.1 mf 400 V axial, 2/51
0.5 mf 400 V Metalize, \$.75
4 mf 600 V pole-type
5.5"x1.5" dia, used \$4.
2 MF 1000 V pole-type
5.8"x1.5" dia, used, \$3.
0.01 mf 630 V mylar, 4/51.

1 KV DISCS: 7/51 100/\$6.
0.0001, 0.0002, 0.002 mf

DIPPED MICA CAPS, +/-10%,
100 V; 3/51. PF: 18 22
27 33 82 150 220 470
2/51.00 750 1000 1200 PF
\$1800 PF 300 V, \$.85 each*

ROTARY SWITCHES

1-POLE 17-POSITION, 2 1/2" dia
bakelite; 3/8x1/4" dia shaft.
CRL #PA3001 NEW \$1.95; 2/\$3

FIVE-DECK ROTARY SWITCH,
each 2-pole 4-pos; bake-
4x1.6" dia; shaft 1/2x1/4"
dia. #SW/RH39, used, \$1.25

MINI-ROTARY, 1-pole 3-pos,
shorting. 1" dia; 1/8" dia
shaft. No hardware.
#LED-M13-S, unused, 75¢

DAVEN SWITCH

18-POSITION, CON-
TINUOUS TURN, 2"
dia. Zinc-silver
contacts, 1/2" dia
shft. #329825-92.2
Unused, \$3.00

2-DECK 5-POS w/ON-OFF swi-
tch 2/SPST 8 A J25 V. 2x1
1 1/2, 2" d shft. #2D5PSW \$3.

MALLOY NON-SHORTING TYPES:
#3243 3-circuit 4-pos \$1.
#3243J 4-ckt, 3-pos., \$1.10

2-DIGIT THUMB SWITCH
00 to 39; can be mod-
ified to 99 but one
digit has 1-pole 10
pos waffer, other digi-
tal output. Digitizer Serie
25000; 1x1x1 1/2. NEW \$1.75

SINGLE-POLE 5-pos phenolic
rotary. 3/8x1/4" dia shaft
0/1. 5x1.1. #467NH, \$1.50

3-POLE 4-POSITION, #4-pos
momentary; 1" dia bakelite.
#SW/PRC-10, unused, \$1.00

miniature tap switch 1 pole
7-position rated 1 amp.
1x1 1/2". Grayhill 7 pos. \$2.00

STAND-OFF HEX SPACERS

male-female thread or
female-female (f-f):
Length per 20 per 100
4-40 threads 1/4" dia metal
0.75" \$4.25 \$12.50
1.375 \$5.50 17.00
6-32 threads 1/4" dia metal
0.375 \$3.00 \$10.00
0.625 \$3.50 12.00
0.75 \$3.75 12.50
1.0" \$4.00 13.50
1.5 (f-f) \$4.25 14.50
8-32 threads 7/16" dia:
3" \$7.00 21.00
4.25 (f-f) \$8.00 24.00
1/4" 20-threads 9/16" dia:
3.25 (f-f) 4/\$2.50 20/10
1/2" 28 threads 7/8" dia:
2.87 4/\$3.50 20/14

32 MF 4500 V

ENERGY
STORAGE
CAPACITORS
NON-PCB,
removed
from
equip; 10x4.5x3.5, 10 lbs:
32 MF 4500 VDC, \$36. \$30.
88 MF 1200 VDC, \$17.50
224 MF 1500 VDC, \$27.00
8 MF 4000 VDC case ground;
8.3x3.5x2, 7 lbs. \$10.00

MOTOR-START
CAPACITOR,
50-60 mfd
330 VAC
plastic en-
closed electrolytic; 4.4x2"
dia. #HSP-77725, \$2.25 ea

SPRAGUE
3X FILTER
0.1 mfd
2500 VDC; 4x1. 5C312, \$2.
0.1 MF 3500 V C-D mfg \$2.50

NON-PCB DC CAPACITORS
1 MF 2000 VDC, 2.4x4.2x1,
1 lb sh. NEW, \$4.50
8 MF 600 V, 3.5x4x1, NEW \$7

U-106 TERMINAL
WINDING POSTS.
"push" spring-
loaded type;
silver-plated.
Threaded 1";
o/a 1.9". Used \$1 ea.

Parts Kits

HARDWARE ASSORTMENT
from electronic e-
quipment such as
washers, screws, ri-
vets, nuts, termi-
nals; 2 lbs \$2.00

PRECISION
RESISTORS
25 asst. Car-
bon or wire
wound 1/2
\$1.50/klt

VOLUME
CONTROLS
10 ASST. Popular
Values
\$2.00

TERMINAL
LUGS, ring
spade, crimp
types. Wide
variety of
sizes for all uses in
plastic box.
APPROX. 200 PCS. \$3.00

ROTARY SWITCH KIT.
six types; multi-
deck & contacts \$2

TECH-LAB
SWITCH.
4 pole 7-
position
w/ gold-
plated
contacts;
two poles 5
amp & two 3 A
Shaft 1"x1/4" dia;
o/a 2.3x2.3x2.5. 1#
#TL-4PTPS, used, \$5

DALE 70 WATT 5% 6-
RESISTOR BANK, two
ea 6 x 7 ohm one
ea 6 x 8 ohm; 6"Lx
3"H. #R6X7OW \$4.95

DALE (or =) POWER
RESISTORS, chassis
mount metal. NEW:
OHMS WATT PRICE
1.96 30 1/2 \$2.00
39 15 1/2 \$1.00
43 250 3/4 \$4.50
47.5 75 1/2 \$2.50
50 20 3/4 \$1.25
250 50 3/4 \$2.00
710 20 non-ind \$2
1400 120 1/2 \$3.50
3000 25 1/2 \$1.25

0.33 3 1/2 \$1.50
28K 0.25 .05 \$4.00
51K 0.5 0.1 \$4.00
1 MEG 15 5 \$3.00
10 MEG 20 3/4 \$5.00
15 MEG 10 3/4 \$2.50

PRECISION RESISTORS
most +/-1%; \$.30 ea
1.5 ohm 3.0 V +/-5%
5 ohm 0.33 watt
22.5 ohm 0.25 watt
600 ohm 0.25 watt
4K ohm 0.50 watt
10K ohm 0.50 watt
25K ohm 0.25 watt
30K ohm 0.33 watt
100K ohm 0.25 watt
330K ohm 0.50 watt
1.04M ohm 0.33 watt

NON-PCB CAPACITORS
10 mf 370 VAC; 2.8x3
x1.8, 1#. Used, \$3.
20 mf 330 VAC, 2.8x3
x1.8. Unused, \$4.00
50 mf 370 VAC, 3.5x10
x1.9, 3#. Used, \$8.

18-POS 1-POLE NON-SHORTING
SWITCH w/external auxiliary
3 amp low-voltage contacts
that "make" 1/180° of ro-
tation. 2.3x1.8x1.6, 1/4"
dia shaft. #258-5352, \$3.00

THREE DECK 7-POSITION TAP
SWITCH w/screw terminals;
10 amp shorting contacts.
1.8x2x3.1 x 1.3"x0.3" dia
shaft. #ES32303LH, \$3.50

CERAMIC ROTARY,
2-deck, 4-break
3-make; 2" dia
x 4.3"x1 w/knob.
#746910G1/407, unused \$7.50

5/10W, \$.25; 20/25W \$.35
5 WATT: ohms 10, 50
100, 350, 500, 2000
5000, 7500, 12500, 15K
10 WATT: 0.33, 2, 10, 84,
1000, 2000, 2500, 3500

20 WATT: 200, 630, 1000
25 WATT: 0.33 100 1K 2K 10K

1.1 OHM 91 WATT, flat \$1.00
2.5 OHM 50 WATT, \$1.00
5 OHM 75 WATT Ohmite \$1.
15 OHM 95 W, Dale 5%, \$1.00
20 OHM 47 WATT, flat, \$.75
25 OHM 50 WATT, \$.75
1600 OHM 43 WATT, \$.75
2000 OHM 43 WATT, \$.75
3000 OHM 68 WATT, \$1.00

WATT OHMS L x DIA PRICE
100 50 6.3"x0.8", 1.50
100 75 6.3"x0.8" 1.25
100 200 " 1.25
100 750 6.5"x1.3" 1.25
113 2K 6"x1.3" 1.25
175 2 " 2.00
175 10K 8.5"x1.3" 2.50
125 1 10.5"x1.6" 3.00
225 25 10.5"x1.6" 3.50
240 0.82 12.5"x1.1" 3.00
240 10 10.5"x1.6" 3.00

FERRULE CLIP-ON MOUNT:
2.5 2.5M 5.4"x1.4" 2.50
90 800 7.5"x1.1" 1.50
90 35K non-induct 3.00
120 7K 9.5"x1.3" 1.75
140 11 11.5"x1.2" 2.00
203 82 " 2.50

Variable SLIDE RESISTORS:
1 OHM 10 WATT, \$.65
1.5 OHM 110 WATT, \$2.50
2 OHM 25 WATT, \$1.00
4 OHM 25 W + 4 fixed \$7.5
15 OHM 50 WATT, \$1.35
20 OHM 25 WATT, \$1.00
25 OHM 75 WATT, \$1.50
30 OHM 200 WATT, \$3.00
50 OHM 50 WATT, \$1.35
50 OHM 160 WATT, \$2.50
100 OHM 150 WATT, \$2.50
250 OHM 100 WATT, \$2.25
250 OHM 200 WATT, 28 \$3.00
500 OHM 160 WATT, \$2.50
1000 OHM 20 WATT, \$1.00
1000 OHM 125 WATT, \$3.50
2500 OHM 25 WATT, \$1.00

EDGEWOUND RIBBON RESISTORS:
0.45 OHM 1K W, 15x5.5x3 \$15

MULTI-SECTION RESISTOR,
750-23-25-7500-3000 ohm
sections; total 11296 ohms.
8.2"Lx1" dia, \$1.50

WARD LEONARD ENCLOSED 40 OHM
300 W vari-resistor; 600 V
max. Fits 0.5" dia shft. 3" H
x6.5" dia. #2130-40, NEW \$14

HIGH VOLTAGE TRANSFORMERS

PRI HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
115 60	250 V 120 MA tapped 50 V	4x6.5x3.5	9	#BP-18587	\$7.95
115 60	375 VCT 50 MA 6.3 V 2 amp	2.5x3x2.6	3	#8316527	\$5.50
115 60	400 V 150 MA	4x6.5x3.5	9	#BP18586	\$7.95
115 60	450 VCT 75 MA 6.5 V 4.5 amps	3x3.8x3.4	6	#T1/URM25	\$7.95
115 60	460 VCT 50 MA 6.3 V 2.5 amp; wire leads.	2.4x3x2.5	4	#24R11U	\$7.95
115/230	300 VCT 25 MA 6.3 V 0.6 A, 6.3 V 0.4 A	3.5x3.8x2.8	4	#317/RM13	\$5.25
115/230	320 VCT 90 MA 6.3 VCT 4 amps, 6.3 V 1.5 A	4.5x5.5x3.8	8	#T520/FGC29	\$8.95
115/230	328 VCT 20 MA 6.3 VCT 3 amp	3.3x2.6x2.8	4	#BE-15535	\$5.95
115/230	700 VCT 100 MA 6.5 V 4 amps, 3 KV insulation test	3.8x5.5x4.4	10	#T700-100	\$10.95
115 60	710 VCT 80 MA 6.3 V 3.5 amps 535 WV	2.7x4x3.3	5	#TF2RX03ZZ	\$8.95
115 60	800 VCT 145 MA 200 V 75 MA	4.3x5x3	7	#68G81	\$11.95
115 60	820 VCT 100 MA 5 V 2 amp, 6.3 V 2.5 A, 6.3 V 1.25 A	4x5x4.4	14	#T1/TS382	\$10.95
115/230	840 VCT 75 MA 6.3 V 2.7 A, 6.3 V 1.5 A, 7.3 V 1 A	3.9x4.5x3.5	9	#DP-7421A	\$8.95
115 60	900 VCT 190 MA 6.3 VCT 2 amps, 5 VCT 2 A	4.9x4.6x3.6	10	#68G684	\$14.95
115 60	1000 VCT 220 MA 5 VCT 2 amps, 5 VCT 4 A	3.9x5.4x4.5	16	#T/T368	\$20.
115 60	1080 VCT 150 MA 5 V 2 amps, 6.3 V 2.5 A, 6.3 V 1 A	4.3x6.1x4.5	17	#TF4RX03YY	\$16.
115 60	1250 VCT 177 MA 900 WV, 6.5 VCT 6 A, 6.5 VCT 1.7 A, 5 V 3 A	5.1x6.3x5	20	#T-11/TXC	\$20.00
115 60	2600 V 120 MA tapped 1600 V	5.9x7.4x4.8	26	#BP-18584	\$20

LOW VOLTAGE TRANSFORMERS

PRI HZ	SECONDARY	SIZE	WT	STOCK #	PRICE
115 60	2.7 V 10 amp two 5 V 2.1 A, 6.4 V 3.8 A	3.8x6.2x3	10	#SMB-202908	\$8.95
115 60	5 VCT 13 amp	3.5x5.5x3	8	#T2/T368	\$14.95
115 60	6.3 VCT 12 A, two 6.3 VCT 1 A, two 6.3 VCT 0.6 A	4x6x4	10	#229611-317	\$12.95
115 60	6.3 V 1 A or tapped 5.8 V 3.6 amp, 6.3 V 2 A	2.6x2.4x3.8	3	#72-1485	\$4.95
115 60	6.3 V 3.6 A two 15 V 4 ma	3.1x3.5x3.9	4	#762806	\$4.50
115/230	6 V 2 A or 12 V 1 amp	3.2x3x1.5	2	Stancor #P6375	\$3.50
115 60	4 x 6.3 V 1.75 A 2.5x3x3.4	4	Triad #F-34	\$7.50	
115 60	9 V 15.6 amp	4.5x4.5x4	8	#776-6167	\$9.95
115 60	9.2 V 600 MA	2x3x2	2	#NE-1063-P	\$3.95
110-240	11 V 35 amp tapped 10, 7.5, 5 V CT	7.8x7.2x6.6	25	#545-7827	\$25.00
115 60	13 V 5 amps	3.3x3.8x3.3	7	#227-6863	\$6.50
115 60	23 V 300 MA used to power	3x4.5x3	6	#SMB202959	\$6.95
115 60	6.4 V 6.4 amps 115 V 75 MA 6.3 V 6 A, 6.3 V 3 A, 6.3 V 1.8 A, 2.5 V 5 A	4.8x7x6	14	#BP-18585	\$9.95

28 V 6 AMPS

28 V 6 AMP TRANSFORMER
on chassis w/ On-Off &
line cord for 115 VAC
60 Hz input. 5.5x2.8
x3.5, 6#. #1R80498 \$9.95

Notice: TRANSFORMER & CHOKE STOCKS
ARE LIMITED. Please provide 2nd
choice or acceptable rating range!

Pri: 115/230 VAC
60 Hz
Sec: 52 VCT 600 MA
DC, 17 Cap input.
2x2.6x2.1, 2 lbs.
CEI#16170, used \$6

Pri: 115/230 V 60
Hz Sec: 25 VCT
4 A; 4.7x2.5x2.5
3#. #TF5S03ZZ, \$7

Sec: 35 VCT 1 amp;
2.5x2.8x3, 3 lbs
#1341155-2. \$2.50

Pri: 115 VAC 60 Hz
Sec: 30 VCT 10 A.
30 VCT 3 A. Open
frame: 3.8x5.3x4.5
15#. #TT2302, \$19

Pri: 120 VAC 60 Hz
Sec: 2000 VAC 125
UA, 400 VCT 25 MA
6.3 V 1.2 amp, 26
V 400 MA. 3.5x4.3
x3.3, 6 lbs sh.
#T101/CP95, \$9.95

#KAL-2334: 24 VCT
3 A, 40 VCT 575
MA, 105 V 350 mA;
4.5x3.8x3.3, 8
lbs sh. \$5.95

#142259, 32 VCT
1.5 A; 2.5x2.6
x2.1. 3#. \$3.95

MSR-448: 36 VCT 2
amps; 1.5x2.9x2.1
3 lbs. Used \$4.95

#TRA-1577: 15 VCT 3
amp, 5 V 1 A, 2x3x3
x2.2, 4 lbs. \$3.95

#XMO-56: 50 VCT 3A
3x4x3x3, 8 lbs.
\$5.95 ea; 10/\$54.

Pri 115
VAC 47-
63 Hz
#115-
3054

115 V 200 ma, 6.3
V 6.25 A; 2x3x3x3
5 lbs sh., \$4.95
#435-2054, 435 V
370 ma; 2x3x3x3
8 lbs sh. \$7.95

Sec: 34 V 2.7 amps
4.8x4.8x4.4, 14 lbs
#853-6026, \$6.50

FOR RA-62 RECTIF.
USED TO POWER
SCR-522 REC-TRANSE
PRI: 110/220 VOLT
40-60 CYCLE

Sec: DC VOLTAGE
300-230 MA
BIAS 10-8"
13.4 @ 3.9 A
5x5x8; 30 LBS.
#3340-296-862-192
Price: \$7.95

450 V 440 MA
Run 450 V to 115 V 200 W
stepdown xformer "back-
wards" to get 450 V 440
MA output from 115 V 60
Hz input. 4x4.5x4.12#.
#637-003-814. NEW. \$15.

Pri: 115/230 VAC
50-60 Hz
Sec: (12 V 14 A,
by wiring 12 V
secondaries in
parallel) or
12 V 9 A, 12 V
3.2 A, 12 V 2
amps; also 44 V
2.5 amps.
5x4x4x4; 22 lbs
#P-601719, \$7.95

PRI: 115 VAC 60 Hz
#M5087, sec 44 VCT
11 A, 44 VCT 3.5
A; 4.6x6.1x4, 18
lbs. Used. \$25.00
PLUG-IN XFORMER
Sec: 24 V 20 VA
2x2.8x2, 2 lbs sh
#BE-8002, \$2.75

Sec: 20 V no-load
or 12.5 V 2 amps
on 4" dia plate.
3x3x2.5, 2 lbs.
#FR-24960, \$2.95

Pri: 115 V 50/60
SEC: 100 VCT 1.5A
20 " 3.0A
30 " 5.0A
25 " 5.0A

WITH CAPACITOR
GE-9T91A4059
REQ. VENTILATION
5x6x7; 25 LBS.
12-CT \$5.95

TORROID TRANSFORMER
HAS DUAL 24 VCT
8 AMP outputs from
115 V 60 Hz input.
W/hardware & 2.3x
8.8x5.6 chassis.
Torroid: 8" dia X
1.5"H; 8 lbs sh.
#BC-24V-ASSY. \$24.

Pri: 115 VAC 60 Hz
Sec: 40 VCT 60 Hz
Open frame with
shielded core:
3.5x4.3x4, 10#.
#135-0737. NEW \$14

Pri: 115 V 200 ma, 6.3
V 6.25 A; 2x3x3x3
5 lbs sh., \$4.95
#435-2054, 435 V
370 ma; 2x3x3x3
8 lbs sh. \$7.95

MODULATION

ARC-38 MODULATION
PRI: 5500A 235 ma
or 2000A 300 ma
Sec: 200A 20 ma
90 watt max. 3.1x
3.5x2.9, 4 lbs sh
#677-0923, \$7.95

MODULATION TRANS-
FORMER from HF
ART-13 transmitter;
50 W rating.
Pri: 15000 ohms
Sec: 7300 ohms,
4 KV test. 4.3x
3.3x2.8, 4#. USED
#MOD/ART13 \$17.50

T-368 HV XFORMER
Pri: 115 V 60 Hz
Sec: 6336 VCT 500
MA. 7500 V insu-
lation; 10.5x10.5
x9, 90 lbs. USED
#T9/T368. \$85.00

450 V 440 MA
Run 450 V to 115 V 200 W
stepdown xformer "back-
wards" to get 450 V 440
MA output from 115 V 60
Hz input. 4x4.5x4.12#.
#637-003-814. NEW. \$15.

TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 19 V 5.4 A, 26 V
1 A, 6 V 900 MA, 25 V
500 ma, 95-10-0-10-35
V 5 A, 4x2x2x2.16 lb
#401-21 unused \$8.95

Sec: 40V 2.5A/6.3V 1.5A
3x3x3x5; 10 lbs.
#43278 \$4.95

Sec: 30 vct 560 ma 40
vct 450 ma 2x2x2x2; 2
lbs. #401-6 \$3.00

Pri: 115 VAC 60 Hz
Sec: 52/33/18 VCT 2.6
amps; 3.2x3.8x3, 6#.
#E1A606-451 NEW \$6.95

Sec: 27 VCT 2.2 AMPS
2.5x3x2.3, 4#. NEW
Wabash #4462, \$4.50

Pri: 115 VAC 60 Hz
Sec: 39.6 VCT 2.2 amps
175 WV: 3x4x3.5, 8#.
#910-0390. NEW. \$6.50

32 V 3.5 A
secondary; 3.3x2.8
x2.3 open frame; 4#.
#X5157308 used, \$5.95

Sec: 33 V 2.2 A; 3x2.5
x3. 4#. #803-3426, \$5

22 V 20 AMP

Sec: 22 V 20 AMP, 38
VCT 6 A, 34 VCT 9 A;
4.3x5.8x5, 18 lbs.
#MA-TC05023. \$22.00

1510 V 1 Y

3 Ø DELTA to 3 Ø "Y"
400 HZ TRANSFORMER
Pri: 200 V
delta 3 Ø
400 Hz.
Sec: 1510V
3Ø 500 MA
originally
produced 2000 VDC for
1 KW xmitter. Usable
with some automotive
alternators to run
high voltage equip-
ment. 4x4.5x5.5, 5#.
#T1/T730. used. \$20.

Sec: 40 VCT 2.1 A, 24
V 1 A, 117 V 50 MA;
sealed. 3.5x5.5x3,
8 lbs. #9807. \$6.95

Sec: 30/32/34/36 V 7
amp; 4.5x6.4x4, 18#.
#672-1217, \$14.00

VIBRATOR TRANSFORMER
Pri: 12.6 V 115 Hz
Sec: 160 V 160 ma
2.1x3.4x2.8, 4 lbs.
#5950-243-5879, \$5.95

VERSATILE MULTI-OUTPUT TRANS-
FORMERS from DC power supplies.
Each have primaries 100/110/120
VAC 60 Hz; secondaries 26-9-3-3
0.9 V (38.9 V total) @ same current
and 150 VCT 200 ma winding.
#021/022-0050, 4 amp output w/4
diodes; 2.6x3.8x3.5, 5#, \$7.50

9100-0168 2 x 52 VCT 300 MA; 115/230 V pri
2.5x3.4x2.8; 2 lb sh. \$4.95

#701-221, 46 VCT 3.5 amps, 7.5 V 2 A;
4x3x3x3, 6 lbs sh. \$5.95

#12019, 28.5 V 6.5 amps; 3.5x4.3x3.5,
6 lbs sh w/1. \$11.95

#701-129, 50 VCT 2 amps, 6 V 2 A;
3x3x3x3, 5 lbs sh. \$4.95

POWER
PACK:
240 VDC
400 MA
output
5x4x5,
#3930, used \$12.

Sec: 24 VCT 2 amp. 13
VCT 2 A, 60 V 1.5 A
3x2.3x2.6, 4 lbs sh
#52512-2. NEW. \$5.50

Sec: 40 VCT 1 A;
SIZE: 3x3x1x2; 1.5 LBS.
#4366000 \$2.95

Sec: 24 V 2 A, 6.3 V
& 24 V 100 MA. 3.5x3
x3, 4#. #LT-646 \$4.95

Sec: 30 VCT 200 MA
45 VCT 100 MA/2.5v30M/
SIZE: 2x3x1x2; 1 LB.
#RC#374501-1 \$2.95

Sec: 18 V 4 amp. 2.5x
3x2.8, 4 lbs sh.
#SK-710202. NEW. \$4.95

Sec: 21 VCT 6 AMP,
15 V 1.5 A, 10 V 3.5
A; 4x3.3x3.6, 9 lbs.
#CR-X2415. \$9.95
+ + + + +

Sec: 40 VCT 1 amp, 31
VCT 2 A, 11 V 1.2 A;
3.3x3.8x3.3, 7 lbs.
#P-1220, NEW. \$7.00

Sec: 18 V 1.5 A, 19 V
2.5 A, 10 V 4 A; 3x
4x3.5, 7 lbs sh.
#BE12696, NEW, \$4.95

22 VCT 3 A

30 VCT 1.5 A

Pri: 100, 115 V, 60 HZ,
Sec: 22 VCT 3 AMP,
80 VCT 1 1/2"
SIZE: 3x4x3x4; WT: 8 LBS
#S92890015 \$4.95

Sec: 40 VCT 2.1 A, 24
V 1 A, 117 V 50 MA;
sealed. 3.5x5.5x3,
8 lbs. #9807. \$6.95

Sec: 30/32/34/36 V 7
amp; 4.5x6.4x4, 18#.
#672-1217, \$14.00

VIBRATOR TRANSFORMER
Pri: 12.6 V 115 Hz
Sec: 160 V 160 ma
2.1x3.4x2.8, 4 lbs.
#5950-243-5879, \$5.95

VERSATILE MULTI-OUTPUT TRANS-
FORMERS from DC power supplies.
Each have primaries 100/110/120
VAC 60 Hz; secondaries 26-9-3-3
0.9 V (38.9 V total) @ same current
and 150 VCT 200 ma winding.
#021/022-0050, 4 amp output w/4
diodes; 2.6x3.8x3.5, 5#, \$7.50

9100-0168 2 x 52 VCT 300 MA; 115/230 V pri
2.5x3.4x2.8; 2 lb sh. \$4.95

#701-221, 46 VCT 3.5 amps, 7.5 V 2 A;
4x3x3x3, 6 lbs sh. \$5.95

#12019, 28.5 V 6.5 amps; 3.5x4.3x3.5,
6 lbs sh w/1. \$11.95

#701-129, 50 VCT 2 amps, 6 V 2 A;
3x3x3x3, 5 lbs sh. \$4.95

TRANSFORMERS

40 VCT 9 A 22 V 18 A

Pri: 100/115 VAC
Sec: 40 VCT 9 amp
and 22 V 18 amps
5.3x6.3x6, 33 lbs
#7213-4112, \$24.

Pri: 115/110/121/
124 VAC 60 Hz
Sec: 42 VCT 2.5 A
2 VCT 12 amps;
6.3x5.8x4.8, 14#.
#253-2539, \$8.95.

115 V 60 HZ 15 V 3 AMPS; 13 V 2 A; 6.3 V 7 A.

WITH CAPACITOR,
4x3x3x3, 13 lbs.
#PV-175-9, \$4.95

AUDIO

STANCOR audio NEW:
#A3837, pri 500-
500 ohm; sec 0.06
to 48 ohm 15 watt
2.9x2.4x2, 2# \$4.

Pri: 7500 ohms
Sec: 500 ohms
1500 V test; 200-
5000 Hz 2.5 watts
#677N227, used \$5

Pri: 48 ohms CT
Sec: 3.2/8/16 ohms
5 W; 1.8x2x1.3, 1 lb.
#TR-61, NEW \$4

Pri: 250/4000 ohm
Sec: 150, 600A CT
400-3000 Hz; 1x
12x2x2, 2 lbs sh.
#C-280/RM-39 \$3.

MIC INPUT FORMER
Pri: 100 ohms
Sec: 10000 ohms
2.3x4x2.3, 3 lbs.
#T3/AM20, used \$5.

Pri: 600 ohms
Sec: 8 ohms 2 W
1.6"Hx1.3" dia
#T1/LS166, \$8.50

Pri: 8000 ohms
Sec: 500 ohms
2 W 200-3000 Hz
2.6x2.6x2, 2 lbs.
#T115/R19, used \$5

Pri: 10000 ohms
Sec: 600 ohms CT
1 W; p/o R-390A.
1.5x2.1x1.5, 1 lb
sh. #AF/390A, \$5.

Pri: 62500 ohms
Sec: 1340 ohms
100-10000 Hz 3 ma
1.9x3x1.8, 1 lb.
#502-5442, \$3.95

Pri: 30000 ohms
CT 8 W DC
Sec: 600 ohms CT
75-7500 Hz;
2.1x3.5x1.9, 2#.
#TF4RX13FA, \$5.50

30 WATT OUTPUT
Pri: 9000 ohms CT
Sec: 600/250/125/
60/30 ohms;
30 W 50-10000 Hz
3.4x4.3x3.1, 6#.
#T1/AM-20, \$22.00

13000 ohms CT: 25/
1000 CT ohms, 200-
35K Hz. 3x3.5x2.5,
3#. #T2/SG-15, \$5.



TV-7 TUBE CHECKER
TRANSFORMER, 18
taps from 0.6 to
110 V for tube
filaments; 115 V
50-60 Hz primary;
7 lbs. USED, \$20.

STANCOR #P-6333 Pri: 115 VAC 50 40 60 Hz

Sec: two 5 V 3 A,
7.5/6.3 VCT 3 A,
6.3 VCT 4 amps.
2.9x3.3x3.4, 7#.
UNUSED, \$9.95

Pri: 115 VAC 60 Hz Sec: 6 V 500 MA 1.8x1.3x1.5, 1 lb

URC#317B648, \$1.75
Sec: 2x30 V 250 MA
1.8x2x1.5, 1 lb.
URC #60605, \$2.50

TRIAD MODULATION Pri: 32 ohms CT 575 DA

Sec: 8K ohms
10 W, 2.7x2.4x2,
2#. #TY-652, \$5.

TRANSISTOR DRIVER Pri: 100 ohms 100 MA. Sec: 100 ohm CT, 50-10K Hz 500 mw, 2.7x1.5 x1.5. #TY-61X \$4

GRID INPUT AUDIO,
Pri: 40 ohms
Sec: 75000 ohms
2.3x3x1.9, 1 lb.
#314/RM-13, \$4.50

Pri: 15000 ohms
Sec: 600 ohms CT
300-5000 Hz 2.3x
2.8x1.9, 2 lbs.
#315/RM-13, \$4.50

WW-2 RECEIVER &
XMITTER AUDIOS
#25287A/101 audio
pack / BC-348E-
M-O-P, 3#. \$9.00
#2C6191A/T3 mic
transformer for
BC-191A; 3#. \$6.
MIC TRANSFORMER
Pri: 50 ohms 30 ma
Sec: 500 ohms, 400
to 1900 Hz. 1.8x1.8
x1.8, 1 lbs sh.
#T204/PP-115 \$2.00

Pri: 500 ohms CT
Sec: 500 ohms CT,
600-12000 Hz; 2x2
x2.8, 2 lbs sh.
#T203/PP-115 \$2.00

Pri: 4000 ohms
Sec: 200-50-12.5-
3.12-0.78 ohm
300-4000 Hz; 1.9x
2.3x1.8, 1 lb.
#677N254, \$4.50

Pri 20KACT/30KACT
Sec: 500 ohms split,
1500 ohm split,
1/2"x1/4" di. UTC
#DO-T39, NEW, \$4.

Pri: 4000 ohms
Sec: 200-50-12.5-
3.12-0.78 ohm
300-4000 Hz; 1.9x
2.3x1.8, 1 lb.
#677N254, \$4.50

Pri 20KACT/30KACT
Sec: 500 ohms split,
1500 ohm split,
1/2"x1/4" di. UTC
#DO-T39, NEW, \$4.

Pri: 4000 ohms
Sec: 200-50-12.5-
3.12-0.78 ohm
300-4000 Hz; 1.9x
2.3x1.8, 1 lb.
#677N254, \$4.50

Pri: 4000 ohms
Sec: 200-50-12.5-
3.12-0.78 ohm
300-4000 Hz; 1.9x
2.3x1.8, 1 lb.
#677N254, \$4.50

LOW VOLTAGE TRANSFORMER

Pri: 115 VAC 60 Hz
Sec: 6.6 V 18 amps
3.5x5.5x4, 14 lbs.
GE#9735Y159, \$6.95

Pri: 115/230 V 50-60 Hz
Sec: 4.5-6.5 V 12 A; 5x6.1
x4.5, 21#. #T-4565, \$6.50
Sec: 17 V 1.5 A, 19 V 1.6 A
2.5x3x2.5, 3#. #54-995, \$4.

Sec: 16.5 VCT 2 amps; 2.6x
2.5x2, 2#. #BE15689, NEW \$4

Sec: 26.8 VCT 1 A; 2.5x2
x2.3, 2#. #401-17, \$3.00
Sec: 6.3 V 2 amp, 6.3 V 2.5
A, two 5 V 2 A; 3.8x4.8
x3.5, 5#. #TF1A013A, \$5.95

Pri: 115/230 VAC 60 Hz
Sec: 31 V 5 amp, 39 VCT 2 A
3.5x4x3, 8#. #TI-723, \$7.95

Pri: 12.6 V 2.5 amps
Sec: 260 V 65 ma; 3.6x3.5
x2.6, 8#. #T16/110, \$6.95

Sec: 12.5 V 2 amps, 150 V
2 A. 4.5x4.8x3.8, 13 lbs.
#773605, unused, \$7.95

2-WAY VIBRATOR TRANSFORMER
Pri: 105-130 VAC 50-70 Hz
Sec: 450 VCT 35 MA, 6.4 V
5.2 A. 6 V vibrator input
produces 450 VCT out only;
1500 V test. 3x4x3.8, 4
lbs sh. #TF1A03YY, \$7.50

CONSTANT VOLTAGE
by Sola, input 95-
130 VAC 60 Hz
Output: 25-27
VAC 3.5 amps
5x3.8x4.8,
12#. Used, \$6.
#22662, \$6.

FLYBACK TRANS-
FORMER f/tube
type TV. 5 V
input yields
1300 V 50 KHz
output. Style
varies; 1 lb. #FLYBK-96, \$4

AM-6154 PLATE TRANSFORMER
part of GRT-21/22 power amp.
Pri: 105/120/210/240 VAC
47-440 Hz
Sec: 1752 V 270 MA; 20 lbs.
#T1/AM-6154, used, \$45.00

ISOLATION, pri 115/230 V
60 Hz; sec 105 VAC 1 amp
2.2x2.6x2, 3#. #A762101,
NEW, \$6.95 each; 2 for \$12.

ULTRASONIC AUDIO, 5 to 50
KHz response. Pri: 6K ohms
tapped 1500/1500 ohms.
Sec: 600 ohms 3 W tapped
150/150 ohms. 1.9x3x1.8,
2#. #AF-UL6K, used, \$5.95

5000 ohms; 50/500 Hz,
200-6000 Hz 2 W. 1.9x2.3
x1.6, 1#. #T2/LS128, \$3.50

R-390A TRANS-
FORMER-POW-
ER SUPPLY
p/o R-390A
receiver;
tube sock-
ets for two
26Z5's. Transformer input:
2 X 115 VAC 48-62 Hz. Out-
put: 570 VCT 200 MA, 25.2
VCT 1.2 amp, 6.1 V 8 A;
4x7x6, 20 lbs. #PS-R390A,
used \$30.

Pri: 210/220/230/250 VAC
50-60 Hz 3 phase delta Y
Sec: 3400 V each 1.6 amp
wye secondary; 12x26x16,
400#. #T801/TMC, \$400.

Pri: 210/220/230/250 VAC
50-60 Hz 3 phase delta Y
Sec: 3400 V each 1.6 amp
wye secondary; 12x26x16,
400#. #T801/TMC, \$400.

Pri: 210/220/230/250 VAC
50-60 Hz 3 phase delta Y
Sec: 3400 V each 1.6 amp
wye secondary; 12x26x16,
400#. #T801/TMC, \$400.

HIGH VOLTAGE TRANSFORMERS

DC POWER SUPPLY
Pri: 115v 60 cy
SEC: -8000 v.
2.5-1 MA.
-120V 15 MA
-24V 1.5 A
-16V .45 A
Size: 4x4x9 1/2. Wt: 15 LBS.
#GE9T63Y2280G03 \$14.95

STATIC NEUTRALIZ-
ER POWER SUPPLY,
5 KV output from
120 VAC 50/60 Hz
20 VA input. 4.3x
3.1x2.6, 4#. NEW:
#S-H-95078, \$12.

Pri: 195/208/217/220/230/
240/250 VAC 60 Hz
Sec: 7140 VCT 1 AMP (5710
PWV); 11.5x15x10, 150
lbs. #CSTC-14947, used \$225

LV TRANSFORMERS
from Tektronix
500-Series
scopes; 16 lbs.
Used, \$20 each:
#120-037, p/o
535/545
#120-120, p/o 535A/545A
#120-041, p/o 585A
#120-034A, p/o 545B

High voltage supplies from
above Tek 500-Series with
5642 tubes. Specify scope
model; 4 lbs. Used, \$35 ea.

HV SUPPLY from AN/USM-117
scope; 3 lbs sh. Used, \$35.

Pri: 60 V 60 Hz. Sec: 2130
V 16 ma, 112 V 4 ma. 4.8x8
x4.3, 10#. #HA131P, \$8.95

TRIAD TY-745
TRANSFORMER for
transistor in-
verter having
12-14 VDC input; output 600
VDC 200 MA FW-bridge. 2x4
x2.5, 3#. NEW w/info, \$49.

DUAL PRIMARY, each 100/
110/120 VAC 60 Hz; can be
wired for 200/220/240 V
input. Secondary 120 V
1.1 amp tapped 100 V 1 A;
8 V 2 A -0-8 V 1 A; and
16 V 1.5 A -0-16 V 1 A.
Mounted on board w/AC soc
ket, fused secondaries,
diagram. Xformer 5x4x4, 20
lbs sh. #97313, NEW:
\$12.95 each; 2/\$22.00

3400 V DELTA-Y

ISOLATION

ISOLATION

ISOLATION

ISOLATION

ISOLATION

ISOLATION

ISOLATION

ISOLATION

ISOLATION

CHOKES

0.12 HY 550 MA 2.5 ohms;
2.3x2.7x2.1, 1#. #LI-60, \$4

4 HY 50 MA 110 ohms; 2.5x
1.5x1.5, 2#. #L603/R390A \$6

4 HY 350 MA 55 ohm; 2.6x4.3
x3, 5 lbs. UTC #F1827, \$10.
6x4, 17 lbs. #A5033070, \$10

5.5 HY 325 MA 57 ohms; 4.1x
6x4, 17 lbs. #A5033070, \$10

6 HY 175 MA 104 ohms, 2.8x4
x3, 3 lbs. #241-2664, \$8.25

8 HY 200 MA 185 ohms, 3x3.4
x2.6, 3 lbs. #IF-128, \$9.00

11 HY 500 MA 65 ohms 10 KV;
9.5x7x6, 42#. #L8/T368, \$24

14 HY 5 MA 400 ohms; 1.9x3
x1, 2 lbs. #802C1, \$4.50

SWINGING CHOKES
5/10 HY 270/30 MA 53 ohms;
4.5x5x3, 5#. #L1336/TXC \$10

10/25 HY 125/15 MA; 4.3x4.5
x3.3, 7#. 4RX04LB/FGC29 \$10

C-161 LOADING
COIL, used with
switchboards as
lil ring-thru
transformer; CT
line-side wind-
ing. Popular in
old phone chang-
projects; 3x5x
2.6, 4 lbs sh.
Used, \$10.00

C-114 LOADING
COIL, adds 88
mH inductance
to field phone
wire increas-
ing effective
range 125%.
Watertight case;
4 lbs. \$8.95

DUAL CHOKE 2x12.5
HY 125 MA; series
wire for 25 H 125
MA 92 ohms, para-
lled 6.7 H 250 MA
4x3.3x3, 7 lbs.
#SMC-200651, \$15.

60 TO 400 HZ CONVERTER
STATIC LINE FREQUENCY
CONVERTER, changes 120
VAC 60 Hz input to 120
VAC 400 Hz 350 watt sine
wave output. Output can
be adjusted 60 to 140 V.
7x15x15.5, 44 lbs sh.
#RC-PC350, NEW, \$495.00

SOLA REGULATORS
SOLA HARMONIC NEUTRALIZED REGU-
LATORS: hard-wire type. Input:
95-130 or 190-260 VAC 60 Hz.
Output: 118 VAC 60 Hz. USED:
#24559, 120 VA out; 4.5x8.3x3.3, 18 lbs. \$35
#23-22-112, 120 VA; 4.5x8.3x3.3, 18 lbs. \$42
#23-22-125, 250 VA; 9.6x7.5x5.4, 33 lbs. \$75
#23-22-150, 500 VA; 12.5x6.5x9, 50 lbs. \$100

STANCOR #P6298 500 VA ISOLATION TRANSFORMER,
selectable input 105/115/125 V; output 115 V
50/60 Hz. 5.6x7.1x7.6, 33 lbs. USED, \$60.00

INDUSTRIAL CONTROL TRANSFORMERS, 3 #. NEW:
Pri Sec KVA Size WT \$
#40008 180 23/26/29 0.1 3.8x4x3 7 \$7
#40095 240/480 30/180 1 5.3x8x5 30 \$40
#40008 208-480 20-180 2.9 1.9x13x17 75 \$99
#40096 208/270/325/380 1 phase
230 0.25 6x5x4.3 13 \$15

C-161 LOADING
COIL, used with
switchboards as
lil ring-thru
transformer; CT
line-side wind-
ing. Popular in
old phone chang-
projects; 3x5x
2.6, 4 lbs sh.
Used, \$10.00

C-161 LOADING
COIL, adds 88
mH inductance
to field phone
wire increas-
ing effective
range 125%.
Watertight case;
4 lbs. \$8.95

0.1 HY 6 AMPS
0.75 ohm 175 WV;
4.8x5.8x4, 20 lbs.
#292-5998P1, \$9.

0.03 H 1.4 AMPS
0.35 ohm; 2.3x3x2
3#. #L1/PP869, \$4

SWINGING CHOKE.
0.05 HY 3 AMPS DC
to 1 H 50 MA, 85
ohms 1500 V test;
5.1x5.5x5.5, 20#
UTC #5817, \$14.00

4 HY
CHOKES
70L
3x3.8
x3.3,
4 lbs.

#SMD-422745, 400
ma, 450 Vrms, \$6
#SMD-422768, 300
ma, 1000 Vrms \$6

C-161 LOADING
COIL, used with
switchboards as
lil ring-thru
transformer; CT
line-side wind-
ing. Popular in
old phone chang-
projects; 3x5x
2.6, 4 lbs sh.
Used, \$10.00

C-114 LOADING
COIL, adds 88
mH inductance
to field phone
wire increas-
ing effective
range 125%.
Watertight case;
4 lbs. \$8.95

DUAL CHOKE 2x12.5
HY 125 MA; series
wire for 25 H 125
MA 92 ohms, para-
lled 6.7 H 250 MA
4x3.3x3, 7 lbs.
#SMC-200651, \$15.

60 TO 400 HZ CONVERTER
STATIC LINE FREQUENCY
CONVERTER, changes 120
VAC 60 Hz input to 120
VAC 400 Hz 350 watt sine
wave output. Output can
be adjusted 60 to 140 V.
7x15x15.5, 44 lbs sh.
#RC-PC350, NEW, \$495.00

SOLA REGULATORS
SOLA HARMONIC NEUTRALIZED REGU-
LATORS: hard-wire type. Input:
95-130 or 190-260 VAC 60 Hz.
Output: 118 VAC 60 Hz. USED:
#24559, 120 VA out; 4.5x8.3x3.3, 18 lbs. \$35
#23-22-112, 120 VA; 4.5x8.3x3.3, 18 lbs. \$42
#23-22-125, 250 VA; 9.6x7.5x5.4, 33 lbs. \$75
#23-22-150, 500 VA; 12.5x6.5x9, 50 lbs. \$100

STANCOR #P6298 500 VA ISOLATION TRANSFORMER,
selectable input 105/115/125 V; output 115 V
50/60 Hz. 5.6x7.1x7.6, 33 lbs. USED, \$60.00

INDUSTRIAL CONTROL TRANSFORMERS, 3 #. NEW:
Pri Sec KVA Size WT \$
#40008 180 23/26/29 0.1 3.8x4x3 7 \$7
#40095 240/480 30/180 1 5.3x8x5 30 \$40
#40008 208-480 20-180 2.9 1.9x13x17 75 \$99
#40096 208/270/325/380 1 phase
230 0.25 6x5x4.3 13 \$15

C-161 LOADING
COIL, used with
switchboards as
lil ring-thru
transformer; CT
line-side wind-
ing. Popular in
old phone chang-
projects; 3x5x
2.6, 4 lbs sh.
Used, \$10.00

C-114 LOADING
COIL, adds 88
mH inductance
to field phone
wire increas-
ing effective
range 125%.
Watertight case;
4 lbs. \$8.95

DUAL CHOKE 2x12.5
HY 125 MA; series
wire for 25 H 125
MA 92 ohms, para-
lled 6.7 H 250 MA
4x3.3x3, 7 lbs.
#SMC-200651, \$15.

60 TO 400 HZ CONVERTER
STATIC LINE FREQUENCY
CONVERTER, changes 120
VAC 60 Hz input to 120
VAC 400 Hz 350 watt sine
wave output. Output can
be adjusted 60 to 140 V.
7x15x15.5, 44 lbs sh.
#RC-PC350, NEW, \$495.00

SOLA REGULATORS
SOLA HARMONIC NEUTRALIZED REGU-
LATORS: hard-wire type. Input:
95-130 or 190-260 VAC 60 Hz.
Output: 118 VAC 60 Hz. USED:
#24559, 120 VA out; 4.5x8.3x3.3, 18 lbs. \$35
#23-22-112, 120 VA; 4.5x8.3x3.3, 18 lbs. \$42
#23-22-125, 250 VA; 9.6x7.5x5.4, 33 lbs. \$75
#23-22-150, 500 VA; 12.5x6.5x9, 50 lbs. \$100

STANCOR #P6298 500 VA ISOLATION TRANSFORMER,
selectable input 105/115/125 V; output 115 V
50/60 Hz. 5.6x7.1x7.6, 33 lbs. USED, \$60.00

INDUSTRIAL CONTROL TRANSFORMERS, 3 #. NEW:
Pri Sec KVA Size WT \$
#40008 180 23/26/29 0.1 3.8x4x3 7 \$7
#40095 240/480 30/180 1 5.3x8x5 30 \$40
#40008 208-480 20-180 2.9 1.9x13x17 75 \$99
#40096 208/270/325/380 1 phase
230 0.25 6x5x4.3 13 \$1

UNINTERRUPTIBLE SUPPLY

UPS SUPPLY produces 120 VAC 60 Hz 500 watt output from 48 VDC input. Rechargeable 8 cell X 6 VDC lead-acid battery pack supplies power when normal power is interrupted. Inverter output is modified squarewave with zero crossing. No further data; batteries functional, but no warranty as to cell life. W/casters; 14.5x12.5x10.3, 100 lbs sh. #UPS-48-500, \$980 w/output, \$149. \$125. INVERTER SECTION only from above; #INV-48-500, \$99.50

400 WATT REGULATOR

SOLID-STATE LINE REGULATOR, use to protect your valuable equipment from line variances and spikes. Input 96-132 VAC 50-60 Hz; output 115 VAC $\pm 5\%$ 0.75 to 3.5 amps. Harmonic distortion 12% total max; circuit breaker. MIL-spec quality; 11x 6.5x11, 70 lbs sh. #102-5675, unused, \$49.50

WANG AC CONDITIONER

WANG POWER CONDITIONERS made by Deltron; superior electronic line voltage regulators with full magnetic isolation protects computer and other voltage-sensitive equipment from damage

and information loss caused by line surges or "spags". Provides "clean" 120 VAC 60 Hz output from inputs of 90 to 135 VAC 60 Hz. Input distortion reduced by 1%. Low input shutdown @ 50% of nominal. OVP shutdown @ 12% above max output. 7.8x13x10.4; NEW:

#SC-50-PC, 500 VA output with four 3-conductor AC outlets; 35 lbs sh. #2367. \$160.
#SC-100A-PC, 1000 VA output with one large 15-20R receptacle; 45 lbs sh. #225. \$195.

COMPUTER REGULATORS

WANG LINE REGULATORS, designed for 120 VAC constant output for computers from 95-130 VAC 60 Hz inputs. Each has two 3-conductor outlets, On-Off switch, and line cord. Unused:

#725-2740, 120 V 500 VA output rating; 7.8x8.5x16, 40 lbs sh. #195.00

CONSTANT VOLTAGE

SOLA CONSTANT VOLTAGE HARMONIC NEUTRALIZED AC LINE REGULATOR, provides clean and stable 120 V 60 Hz 250 W output for computers and similar voltage sensitive equipment from 95-130 VAC 3 amp input. Has two 3-conductor outlets and On-Off on front. 6.9x7.8 x13.3, 34 lbs. #63-13-125, USED \$129.50 \$69.

REPAIR KIT

BELDEN "CITY CURE" SHIELDED TWIN-LEAD TV WIRE; two 25 AWG 7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-UHF FM use in high interference metro areas. 75 ft (38), 98. 100 ft (48), \$10.00

MULTI-LINE TELEPHONE CABLES, 18 feet 50-conductor PVC-jacketed cable with Clinch 77-72500 blue connector on one end and terminal lugs on the other; a nice ready-made piece for those complex wiring jobs. 3 lbs sh; #50-TC-18, used, \$5.95

REPLACEABLE PARTS

GENERAL ELECTRIC VARIABLE TRANSFORMER, input 120 VAC 60 Hz. Isolated output 0-60 VAC. Maximum current load: 5 amps. Two units wired in series will produce 120 VAC output. Coil not enclosed; dial plate & knob not included. 4.4"x4"x4" 6 lbs. GE #9T92A1515, NEW \$19.95; 2 for \$35.

VARIABLE TRANSFORMERS, 115 VAC 60 Hz inputs:
POWERSTAT 10B, 0-130 V 1.75 AMPS output; not enclosed; no dial. 3 lbs. USED, \$17.50 \$15
STACO 501, 0-120/140 V 5 AMPS output; not enclosed. W/dial & knob; 10#. USED-EXC, \$38
POWERSTAT M1168U, motorized 0-140 VAC 10 amp not enclosed; 25 lbs sh. UNUSED, \$75.00
POWERSTAT 1368U, 0-140 V 20 AMPS output; not enclosed. W/dial & knob; 25 lbs. USED, \$90
GENERAL RADIO 50-A, 0-135 V 40 AMPS output; enclosed w/dial & knob, 80 lbs. USED, \$185
POWERSTAT 1156D, 0-140 V 50 AMPS 7 KVA output; enclosed w/dial & knob, 80 lbs. USED, \$245

240 VAC 60 Hz inputs; not enclosed. USED:
VARIAC WSH, 0-240 V 2 AMPS; with knob, \$32
VARIAC W20H, 0-240 V 8 A from 120/240 V. \$95
POWERSTAT 1156, 0-240 V 28 AMPS; without knob and dial plate; 80 lbs sh. \$195
* QUANTITIES LIMITED! Stock changes. WRITE! *

POWERSTAT 380 HZ VARIABLE TRANSFORMER, input 120 VAC 380/1000 Hz; output 0-120 VAC 380/1000 Hz 13 amps. Not enclosed; without Knob & dial. 7x6.2x3.3, 9#. #GA50650L, used, \$18

TECHNIPOWER 3 VARIABLE TRANSFORMER, 115 V motor-driven unit includes three-ganged Variacs each with output 0-130 VAC 10 amps. Not enclosed; less dial & knob. \$20 x7.4, 50 lbs sh. #3060-9030, UNUSED, \$135.00

KNOB & DIALS for variable transformers:
#KNB-LCP FLUTED KNOB, 2-3/8" dia; fits 3/8" dia shaft. Used, \$1.25

#VT-DP4 DIAL PLATE, 4" dia 0-100 scale; 7/8" dia center hole, three screw mount. Adjust-A-Volt mfg. UNUSED, \$1.25 each
#BP653 DIAL PLATE, 10" dia 0-100 scale; 1.5" dia center hole, 4-screw mtg. \$3.00

TWIN-LEAD WIRE

TWIN LEAD HOOK-UP WIRE, 5000 foot reel of 2 x #24 low voltage control cable; suitable for speaker, field phone, outdoor lighting or similar low voltage wiring uses. 32 lbs sh. #2x24-5K, NEW, \$29.95

WIRE SALE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over 1000 ft.

#12	\$12/100'	\$99/1000'
#14	\$7.50/100'	\$48/1000'
#18	\$3.50/100'	\$22/1000'
#18 has thick insulation; O.D. 0.185"		
#14 SOLID	\$7/100'	\$45/1000'
#16 SOLID	\$4/100'	\$24/1000'
#22 SHIELDED	\$3.50/100'	\$22/1K
#26 SOLID	\$6/500'	\$9/1000'

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-colored wire and shield:
#22 stranded, \$4.50/100' 10x100' \$62.

COMPUTER CONTROL CABLE in black PVC jacket, #24 wire in color-coded vinyl; LV-low voltage Cond 10' 100' 500' 1000' .32 .28 .24 .18

RIBBON CABLE for computer wiring or similar jobs; 20-conductor #22 stranded wire with ten color codes.
#RIB-20C: 10' 100' 500' 1000'
Price per foot: \$.50 \$.40 \$.30 \$.20

LAMBDA HYBRID REGULATOR

LAMBDA POWER HYBRID VOLTAGE REGULATOR device provides highly stable output of 15 VDC 15 amps max from input of 40 V max and load variance to 20 amps. Line regulation: 0.15%, load: 0.2%. Features low noise and thermal isolation construction and remote programming & sense. 2.5x0.9x2.1, 1 lb. #LAS-5125-005, NEW \$14.95

RECTIFIER FULL WAVE BRIDGES:

#KBPC6005, 50 V 6 amp; used, \$1.00
#KBH25005, 50 V 25 amps, used, \$1.35

2N692 SCR 25 AMP 800 V stud mount, \$3.00 ea

DIODES: 1 AMP 50 PIV 20/1. 400 PIV 15/1. 1000 PIV 10/1.
MR752 6 AMP 200 V \$1.10 MR754 400 V \$1.25
1N3890 12 AMP 100 V 4/3. 1N21 RF diode \$1.
1N1184 or 1N1184RA, 35 A 100 V, used, \$1.00
#30084-A, 84 AMP 300 V stud mount, used \$5.
MR1265FL, 300 PIV 650A; w/hdwre, 3# \$17.50

0.01 MF 100 KV CAPACITOR

A high voltage experimenter's dream! A compact 5"x10"x2.5" 0.01 MF 100,000 VDC capacitor removed from an exotic government project which used 100 of these in series! Nov '83 date codes; 1"L #12 studs ends, 7 lbs. #KM14-1000-10, \$99.50 ea

DC SUPPRESSOR

MX-777B SUPPRESSOR protects vehicle radios VRC-12, VRC-53/64 & GRC-106 from damage by voltage transients. Input 28 VDC; output < 36 VDC. Has 50 amp circuit breakers for Overload & Short; diode overheat protection & manual (BATTLE) override. 5.3x7.3x6.8. 78. USED, \$16.
PLUGS (2) for MX7777; #29935-2P, used, \$4 ea

COAXIAL HF DIPOLE

AS-2259/GRC MANPACK HF DIPOLE ANTENNA fed with a low-loss, foam-dielectric coaxial mast for 2-30 MHz 1 KW PEP radios. Tunes radios which use 15 ft whips such as PRC-47/104, GRC-193 etc and provides high-angle near-vertical radiation permitting short-range skywave propagation COMM-circuits from 0-300 miles. Includes eight 24" mast sections; four radiating elements that also serve as guy, manual & canvas bag. Pack size: 28"Lx8" dia, 18 lbs. Used, \$145.

LOG-PERIODIC

AS-2236/GRC ANTENNA SET, light-weight with minimal guying makes this 30 to 76 MHz low-power log-periodic antenna excellent for field day! Rated 65 watt with VSWR 3:1. 50 ohm impedance. Array mounts on 35 foot mast and unfolds to 10 ft square. Includes antenna, seven 44.5"Lx2.75" dia aluminum mast sections, 44.5"L x 2.75" dia fiberglass section, pivot for horizontal or vertical polarization, folding tripod (10.5 ft square) with five foot pads, six stakes, three screw anchors, guys, ropes, hammer, and set-up info. Array may have replaceable wire "break-up"; 100 lbs sh (UPS in 2 pkgs.) USED, \$125.00
ABOVE with "NEW" array: #AS2236-DM, \$155.00

ARRAY ONLY for AS-2236; mounts to 2.5" dia pipe. Packed size 10"x42"x10"; 20 lbs sh. Dorne & Margolin #DM199-38-7634, NEW, \$59.50

GRA-50 ANTENNA MAST KIT for AN/GRC-106A radio set; consists of 3 each MS-116 and 1 ea MS-117 & MS-118 3' mast sections, AR-652 mast base, polyethylene cover sheath, and CW-206 canvas bag; 18 lbs sh. USED, \$35.00

ANTENNAS

HY-GAIN ANTENNAS

HY-GAIN MOBILE-COM ANTENNAS, new:
760-SERIES antennas include 52" whip, 2.5"H spring base, 18" RG-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs NEW, \$9.95 ea; #761 (30-33 MHz) #767 (33-36 MHz)

280-SERIES mobile coil antenna w/ 52" 1g whip & 2" dia loading coil;

#281 15 meters, 2-3/4"H coil \$9.95

3-FOOT MAST SECTIONS (left), MW-2 & Korean War-vintage; painted copper-coated steel. Sequentially screw into the other; 3/16" dia MS-49 top section the smallest. Self-supports to 15 ft; MS-53 can fit into another MS-53; 1 lb sh. MAY HAVE SURFACE RUST; MS-49 \$50-51-52-53, used \$3 ea. MS-54, -55 or -56, \$6.00 each.

SAUCER CERAMIC BASE fits MS-53, 5" dia X 1.5"H & 3/4"H terminal. #INS/TRC75, \$10.

FIXED STATION BASE for AT-271/PRC antenna; black phenolic 3/4" dia base w/silver-plated receptacle; BNC connection, and load coil 2 lbs. #CAN-100-7555 \$4.

NP-65 MAST BASE similar to AB-15 below except 4"Lx3" dia insulator; o/a 17"L; 4 lbs. \$12.

UG-558 BASE for MS-116-117-118; mounts to SC-D-169023. 16"Hx6" dia; SO-239 conn. Used, \$10.

MOUNTINGS f/MX-6707 used: #SC-D-189023 f/base, \$10. #SC-D-446058 corner, \$10. EXTENDER f/SCD-446058 \$6.

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 mast sections; spring action with 3.3"L x3" dia ceramic insulator and bottom terminal. Requires 2" dia hole for mounting. O/a 15"L, 3#. USED, \$8. NEW \$15.

MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 is middle and MS-118 is tapered top; 1 lb sh each. Used, \$3.50 each

A-62 PHANTOM ANTENNA, electrical network used in place of antenna to tune BC-604 20-28 MHz xmitter. Adjust INCREASE and MAX-MIN; ANT & GND terminals. 7"Hx4" dia, 4#. Used, \$19.95

AS-3439 225-400 MHz ANTENNA, 200 W forward using 40 W load; 30" dia "flying saucer." Hybrid quadrature; N & TNC conn. Used, \$75.
AN-22A LONG-WIRE ANTENNA, 20 ft W-29 wire with snap hooks; p/o SCR-177/188 (BC-191). 2#. \$4.

AT-780/ARN-59 DIRECTION-FINDER ANTENNA for 190 to 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx sel-syn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5". 7#. USED, \$39.50. #NG-AT780, above without glass. \$30.00

IN-127 ANTENNA BASE holds 3/MS-116 & 1 ea MS-117-118 for RT-77/GRG-9; 14.5"L black plastic. 2#. USED \$12
IN-106 ANTENNA BASE, clamps to SCR-284 WW-2 radio; accepts MS-56 mast; top and bottom terminals. Metal with ceramic insulator. 14"Lx3.5" dia, 5 lbs sh. \$9.
IN-106A, as above, except plastic, \$8.

ANGLE BRACKET for attaching MP-50 or similar antenna base mount to rear corner of military vehicle. Bolts for MP-50 & drilled for side mount. 5# #SCC-28591 NEW \$9.95

AB-1721/PRC-47 LONG-WIRE ANTENNA 45 ft vinyl-covered with insulators at 15' and 25'; clips at insulators adjust length. 4 lbs sh. Used, \$12.

AS-1320/PRC-47 ANTENNA & MT-2786 LEGS. 8-section 15 ft whip & legs net make HF ground-plane. Canvas bag; 12 lbs. USED, \$25.
AS-1320 WHIP ANTENNA only, \$17.

DIPOLE FIXTURE part of PRC-74 long-wire antenna set. H-shaped has 25' vinyl-covered 2-conductor copper wire; 2.5x12x1, 3# #DP-MK-911, UNUS. \$6.

AT-780/ARN-59 DIRECTION-FINDER ANTENNA for 190 to 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx sel-syn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5". 7#. USED, \$39.50. #NG-AT780, above without glass. \$30.00

AT-780/ARN-59 DIRECTION-FINDER ANTENNA for 190 to 1750 KHz. Has ferrite loop, 26 V 400 Hz motor & Tx sel-syn for drive direction. Operates in circuit on 26 V 100 Hz. W/ 14 error compensator screws, 0-360 scale visible under glass dome & schematic. 3.8x6.5x6.5". 7#. USED, \$39.50. #NG-AT780, above without glass. \$30.00

VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, \$2.50 ea

8 FOOT DISH ANTENNA

AS-554/TRC 8' dia ANTENNA with aluminum mesh parabolic dish surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; looks like one can add onto and extend the cast aluminum supports to increase dish diameter. 36" feedhorn focal length; 18" all from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but repairable breaks. 425 lbs sh wt. Used \$265.00

AS-1729 ANTENNA SET

AS-1729/VRG ANTENNA SET, consists of MX-6707 impedance matching antenna base and AS-1730 and AT-1095 fiberglass mast sections; designed for RT-246-524/VRG and vehicular versions of PRC-25-77 radio sets. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37, 37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.5 & 70.5-76 MHz FM; also BNC connection for RF. Bottom mast AS-1730 is 52.5"L, upper AT-1095, 64"L; MX-6707 14.3x5.5" dia, 20 lbs. USED, \$59.50 UNUS. W/tiedown, \$125. MANUAL, repro, \$8. MX-6707 MATCHING UNIT only, used, \$39.50 AS-1730 or AT-1095 only, used, \$14.00 each

TIE-DOWN KIT for AS-1729/VRG including tie-down rope and plastic cap for AT-1095, \$8.

AB-21-22-23-24 MAST SECTIONS, 27"L (AB-21 bottom), 1 lb each. USED, \$2.50 ea
AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET for PRC-8-9-10; 2#. UNUS. \$10.
AT-272 FLEX BASE only, short length, \$3.00
AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) \$4.
FLEX BASE ONLY for AT-892/PRC, USED, \$6.
AB-591 RUBBER BASE f/AT-271 (PRC-25-77), \$6.
M-422 ADAPTER for using MS-116/AB-23 masts with PRC & BC-1000 as long ant., \$3.
AB-652 ANTENNA BASE for MS-116-117-118 mast p/o GRG-106. 20"L; 6 lbs. NEW, \$27.
CANADIAN MK II UHF ROD only, 24" long, \$5.00
MK II AERIAL BASE 9, 25"H. #PC-76701, \$15
PC-76418C-191 DUMMY AERIAL f/ MK-II, used \$9
AT-5001/PRC WHIP f/Canadian CPRC-26, used \$8

AT-784 DF LOOP SET

AT-784/PRC DIRECTION FINDER LOOP ANTENNA SET for use with PRC-25/77, VRC-12 and similar radio equipment. Covers 30-76 Mhz in five bands. Controls FINE TUNE 0-10 Mhz in 1 Mhz steps and ATTENUATOR 0-40 DB in 10 db steps. Includes AT-1082 loop antenna with whip, CG-2840 & -3344 cable assemblies in CW-445 canvas bag and manual copy. Collapsed size 8x6x3.5, 5 lbs sh. USED, \$34.50

AB-155 MAST KIT, includes eight self-stacking 66"Lx1.6" dia aluminum MS-44 mast sections to make 40' mast. Also 4 ea guy ropes MX-381 (40'), 5 each 381 (31'), MX-383 (50'), one MX-516 rope, 5 each MX-378 guy rings. AB-154 swivel base, six GP-101 15" stakes, and HM-1 hammer; 70#. UNUS. \$125. \$99.50

TRIPOD ADAPTER, uses three MS-44 as legs to "free" stand mast to 24' without guy support; 4 lbs sh. #TRI-AB155, UNUS. \$15 W/AB-155 purchase

MS-44 MAST SECTION ONLY. 66"L aluminum masts have other potential uses such as tent, flag or volleyball poles; 4 lbs. USED \$8 ea
AB-154/U SWIVEL BASE, sticks into ground and pivots MS-44 to vertical; 3#. USED, \$7.
MX-381/GRA-4 GUY ROPE, 40' long; 3/16" nylon 800# test; w/hooks & insulators, used, \$4.
MX-382, 31", \$3.00; MX-383, 50", \$5.00
MX-378 GUY RING f/ masts to hook guys, \$1 ea
GP-101 GUY STAKES, 15.8"L; alum., 2#. \$3 ea

LONG-WIRE

LONG-WIRE ANTENNA part of MX-911 kit for RT-794/PRC-74 2-18 Mhz 15 W transceiver; consists of 234 foot length of 1/8"W braided wire on reel. Designed to be used in pairs with #1540368 dipole fixture and two support cord #1540369 (not available). #LW-1560017, used, \$9.95 ea; 2 for \$18. #1540368 DIPOLE FIXTURE, unused, \$6.00

IMPEDANCE MATCH

CU-459/AR IMPEDANCE MATCH NETWORK, black plastic bullet-shaped unit designed to mount to aircraft wing and hold two AT-624 antenna elements (not available) 50 ohm BNC connection on bottom. P/o AN/ARC-31 24-49 FM Mhz homing set; 4.3x 3.3, 2#. UNUS. \$5.95

KY-149/AR KEYSER, couples homing antenna to radio; requires 28 VDC. 2.3x7.7x4.9; 3 lbs sh. UNUS. \$14.95

AT-413 DIPOLE

AT-413/TRC-DIPOLE ANTENNA for 225-400 Mhz, originally part of large array. T-top elements extendable 3" on each end to adjust reception; 20" maximum T-width. Mount flange movable to adjust height. Has type C connection on bottom. O/a 15.5"H, 1 lb. USED \$15. UNUS. \$16.

RC-432/G

RC-432/G LONG-WIRE ANTENNA SET, 160' 0.09" dia braided wire on reel; terminations on each end permits other RC-432's to connect and increase length. Used with AN/GRG-106 HF 400 W transceiver; 12.5x4.3x2, 5 lbs. USED, \$14.95

GE #EY-20 MOBILE ANTENNA, 19"L whip; cut length for desired freq in 130-470 Mhz range. Clips to vehicle window gutter; 9 ft RG-58 coax w/PL-259. 3#. UNUS. \$14.

KATHREIN K50-54-4 WHIP, 64-470 Mhz; cut 4' length; 1-hole mount. 15' RG-58. \$16.

CP-12-13 COUNTERPOISE

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lbs sh. Used, \$12.00
GY-12/42 GUY ROPE SET, 3x20' lengths, \$7
M378 ROPE, 80', 96. M379, 10', \$1.50

HYE-QUE ANTENNA

RUDWIG HYE-QUE antenna insulators and strain connector for long-wire installations; full legal power capacity and weather-tight polymer construction. NEW: #HCO-CONN strain assembly with PL-259 connection for lead-in wire drop. \$6.95 #HCO-INS-PR, insulator pair, \$1.75/pr

ANTENNA MOUNT

ANTENNA MOUNT BRACKET for mounting 2" dia antenna bases like AB-15 or similar vehicles or other flat surfaces. Mount plate 6.3"Hx4"H; base hole center extends 3.9" from plate. 4 lbs sh. #SM-BL14371, UNUS. \$9.95

AS-1405/PRC-41 UHF ARRAY, 9 radial pairs on 27.8"L spacer; 30.9"W max. W/ N-con; mounts to 1.5" dia pipe, 15#. USED, \$35.

NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

Prices are PER FOOT for lengths indicated. In between lengths, use the higher price.

LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE!

COAX Ohas 100' 500' 1000' 5000'

RG-8/U 52 .32 .29 .275 .265

RG-58 53.5 .17 .16 .15 .15

HARDLINE COAX, 3/8" dia aluminum jacket, foam insulated, 3/32" dia solid copper wire:

#HLX-3/8, \$.85/ft; 100 ft/\$75. 500'/\$250.

ESSEX 21-597 SUB-NINAX COAX, thin 0.15" outer diameter (O.D.) C.D. core) for making RF jumpers etc. 75 ohm impedance; polyethylene insulation, 93% shield. Similar to Belden

#218; 15 lbs/1K'. Unused, \$12/100'; 1000'/1K'

NEW COAXIAL CONNECTORS

SO-239	PL-259	PL-256	TERMINAL
			POST SPRING
Ag-plate, \$1.10 ea	FL-259 ea	\$1.75 ea	cap nylon
4-hole mt, 10 for	10 for	10 for	1.8" H. NEW:
\$1.25 ea	\$10.00	\$16.00	#BP-NC, \$1.75
#2H-SO-239	#SH-SO239	UG-175, adapts PL-259	
2-hole mt	barrel mt.	to RG-58 coax, \$.35	
SO-239 \$1.	\$1.10	UG-176, f/UG-59, \$.35	

COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U \$.75 ea

-260 m (RG-59) U \$.60 UG-290 f panel U \$1.

-274 "T" 2-f to m, U \$4. UG-909 bulk U \$1.

273 to UHF, UN \$2.00 -306 R/A adapter

-282 to post \$1.50 used, \$1.75

UG-913 r/a U \$1.25

TYPE C: UG-709 m for RG-58, U \$2.50

UG-643 f/f adapter UN \$.35

TYPE N: UG-21 m (RG-8) NEW, \$.400

UG-58 f chassis U \$.250 UG-27 R/A m-f U \$2

-336 m (RG-58) U \$.2

-593 f bulkhead for R-59-62, used, \$1.50

-1052 f bulkhead for RG-58, used, \$1.50

UG-201 ADAPTER. N to BNC, used, \$2.50

TYPE TNC: Greomar #6000 (m) used, \$1.50 ea

#6177 m R/A UN \$.35 #6098 to N f bulk U \$.35

Mini-BNC, p/o R-390A, used, \$1.50 each

Mini-BNC chassis-type p/o R-390A, used \$1.50

UG-100 m U \$.150 D-113 dummy U \$.05.00

-109 f/UG-100 m, UG-59 HN m f/RG8, U \$.4

-920 R/A HN (m) to HN (f), unused, \$.30.00

M-359 elbow: PL-259 to SO-239 U used, \$1.25

COAX CABLES from mil-equipment: USED/UNUSED:

CG-30 COAXIAL, 54" RG-62 w/2 UG-260 BNC, \$.3

RG-213-1, 16" RG-213 coax w/ R/A N conn., \$.5

RG-213-12, 12 ft RG-213 coax w/ R/A N conn., \$.10

A3028297-5, 66" RG-214 w/two N conn., \$10.00

CG-3444, 42" RG-214 coax w/2 UG-573 "C", \$.9

-224 BNC THIN-AX, 1-conn on 50" cable, \$.3

#43866-5, 15 ft RG-223 w/male TNC conn. \$.5

#43866-3, 6.5" SMA jumper w/ SMA conn., \$.4

#5892-10, SMA (m):TNC (f) 8" jumper; \$4.50

#357, 50" RG-59 w/male & female "N", \$.400

CG-3094 MIC CABLE with Cannon XLR-3 mic plug

& 3106A-18-7P plug; 25 ft, 48. USED, \$7.50

TEST LEADS

INSTRUMENT TEST LEADS

for meters, etc. One end has 5.2" plastic prod; other end end tinned wire. Military-quality with heavy insulation; o/a 36' length. One red and one black lead per set; 1 lb. #7S-LRB, NEW, \$2.50/set

ALLIGATOR LEADS

ALLIGATOR CLIP TEST LEAD

KIT, 45" long rubber-insulated lead has 4.8" L plastic prod which fits into plastic insulated alligator "Safe-T-Clip". Kit includes

one each red and black leads, one each red and black clips. #MX-10090, unused, \$.35.00

AMPHENOL

RF and AUDIO CONNECTORS, all new package; Male (M), Female (F)

ENC quick assembly: #31-

#4701 50 (F) \$1.

#31-4702 70 (M) \$1.25; -4703 70 (F) \$1.25

UHF-types:

#83-SSPA, press male to (F) adapter, \$1.25

#83-58FCJ, female UHF cable crimp, \$.75

#83-23 UHF m-f lightning arrester, \$.25.00

B2-831 push-on chassis BNC (F), NEW, \$.45

#81-103 mini plug or #81-104 mini jack, \$.50

MICROPHONE CONNECTORS, all males 1/8" diameter

#80-23 80-876 80-872 80-878 80-886

press look extended look threaded

fit 60% ring \$1 pins 60% ring \$1 barrel \$1

AIRCRAFT SEXTANT

AIRCRAFT SEXTANT w/PERISCOPE, used in larger aircraft to determine night-flight position relative to the stars. Has eyepiece with cup to view through right angle periscope with bubble level. Controls increase bubble size and adjust lens diffuser plus filters red, green & polarized. Also mechanical timer, 3-digit 100-turn counter dial & transit case. Great experimenter/collector item! Requires 28 V AC-DC for lights; 8"Wx13"Hx5.3"D, 23 lbs sh. #MS28011-1F, used w/fiberlass case, \$59.50

818T MODULES

MODULES FROM COLLINS 818T HF TRANSCEIVER, removed from equip. --not tested: AM AUDIO AMPLIFIER #546-6053, has mech filter F500 Y60 (526 9378); 2 lbs sh. \$40.00 IF TRANSULATOR #544-9286, has LSB-USB filters F500 Z4 (526 9377) & Z5 (526 9376), \$.65.00 KC-FREQUENCY STABILIZER, has mechanical filter F250 F100 (526 9410) and crystal filter X250KF440 (526 7006); 3 lbs sh. \$.35.00 RF TRANSULATOR with K9 OSCILLATOR, 158, \$200. 818T POWER AMPLIFIER w/ two 4CX250P tubes, 5 KV doorknob capacitors 12, 2/30, 87, 120 & 140 pf, 7 uH roller inductor; 12#, \$125.

COLLINS 250 MHz

250 KHz IF ASSEMBLY from Collins 1681S1 transceiver. Has 250 KHz mechanical filter with 6.7 KHz bandwidth tubes 3/5749 and 2/5726. 4.8x6x3.3, 3 lbs sh. #IF250-67/6181S1, used, \$16.95 250 KHz CRYSTAL OSCILLATOR from 6181S1; Has 250 KHz BFO coil, crystal oven with CR46 250 KHz crystal, and two 5749 tubes. 4.8x6x1.5, 2#. #OSC-250/6181S1, \$7.95

COAXIAL RELAYS

AMPHENOL #300-11266, response to 12 GHz, 30 watts 27.5 VDC coil. Input push-on SMA, output SMA and mini-BNC connections; 3.1x1.5x1.4, NEW, \$16.

AUTOMATIC CONNECTOR #108-1000-4975 SPDT COAX RELAY, DC to 12 GHz; 48 VDC coil. Three BNC connections; 0.9x2.5x2. NEW, \$11.95

AMPHENOL SPDT COAX RELAY, 28 VDC coil; approx 100 m. Two 12" RG-58 cable leads for direct wire-in and one solder terminal; 1.3x2x1.3, 1 lb sh. #300-11375, NEW, \$12.95

TELEDYNE SPDT COAX RELAY, DC-22 GHz, 24 to 30 VDC coil; solder terminals and three SMA connections. 1.5"x1.5"x2.3"; 1 lb sh. #CS-33S10, USED, \$20.00

RT-871 PARTS

MODULES from RT-671/PRC-47 2-12 MHz transceiver; for replacement use or adapt to your

special project. Used-not tested: AM-3506 AUDIO AMP has mic, sidetone, vox and compressor circuit of TX; AGC & audio for Rx. Req 20 & 24 VDC. 4.3x4.5x1.3, 2#. \$15. AM-3507 AMPLIFIER MODULATOR contains LSU 500 KHz mechanical filter (F500-25 #526-9376) plus balanced modulator and product detector. Requires 20 VDC; 4.3x4.5x1.3, 1 lb. \$.35. Schematic, \$1.50. Connector set, \$.50.00. CV-3311 CONTROL OSCILLATOR, 3 lbs. \$25.00 CV-1377 SIGNAL DATA TRANSLATOR with tubes 5907, 7761, 7905; 5 lbs sh. \$50.00 O-1032 RF OSCILLATOR, contains 3 MHz crystal in oven; produces 500 and 100 KHz outputs. Requires 20 VDC; 4.3x4.5x1.3, 1#. \$20.00

ARC-38 OSCILLATOR

O-215/ARC-38 STABILIZED MASTER OSCILLATOR ASSEMBLY from Collins-made RT-311/ARC-38, an aircraft HF transceiver. Utilizes series-fed electron-coupled oscillator, a more stable frequency variation of the Hartley-type. Step-adjusted inductor covers 14000 positions to tune oscillator frequency of 1.75 to 3.5 MHz in 125 Hz steps. Includes Collins SMD #70E-22, discriminator #147A-1, 27.5 VDC motor gear drive and tubes 3/48A5, 6B6, 2/68E4. Many parts common to ARC-38A SMD assembly. 6.5x10, 15 lbs sh. Used, w/schematic, \$35.00

618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100 watt transceiver. Has 12.3 uH roller inductor; coil 3/4x1/2" dia with 27 turns #14 silver-tinned wire rotated by 115 VAC 400 Hz selsyn. Also ten Centralab 850 BV capacitors 10 pf, 50 pf, 7/100 pf, and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs #3496/618S-1, less tubes, \$28. With tubes \$36. MATING CONNECTORS, 2 required, \$2.50 ea SCHEMATIC for 618S-1 power amp, \$1.50

ARC-50 MODULES

MODULES from AN/ARC-50 or TRC-75 radio sets. Each 4.8x4.5x1.5, 2 lbs sh. Used-not tested: AM-1523 AMPLIFIER DETECTOR with four 5899 tubes; p/o R-761 Rx, \$17.50 AN-1525 ELECTRONIC CONTROL AMPLIFIER, p/o T-605/T-730 w/tx, \$15.00 ea AN-1526, similar to AN-1523, \$17.50 ea AN-1733, similar to AN-1525, \$15.00 ea SCHEMATICS for any of above, \$1.50 each.

AM-1528 AMPLIFIER-MIXER for R-761 with 10 tubes and slug rack, \$45. Schematic, \$.35. AN-1529 AMPLIFIER OSCILLATOR with Collins mechanical filter F455 21, \$28.00 CV-4658 MIXER OSCILLATOR for R-761; oscillator master TON13A, interpolation spectrum generator, etc. With Mechanical filters F455 Q2 and Q3. \$55. Schematic pack, \$10. MD-286 BALANCED MODULATOR with mechanical filters F300 Z4 and F300 Z5, etc. \$30.00 SG-179/URC REFERENCE GENERATOR, \$20.00

C-3141/TRC-75 CONTROL Box for T-730/TRC-75; provides On/Off, Channel and Mode selection. Gain control for Rx and Tx of TRC-75; Appears to be usable with ARC-58. Requires 27 VDC; 5.3x5.8x7.8 6 lbs. Used, \$29.95 CONNECTOR for C-3141, \$5 with box purchase. SCHEMATIC f/C-3141 or C-1939/ARC-58, \$2 ea.

PRC MODULES

A38 TRANS-MITTER VFO module for RT-841/PRC-77 backpack Transceiver; 2.4x1.3 xl, Used-not tested, \$.66. Schematic, \$1.50

HANDCRANK

HANDCRANK MAGNETO GENERATOR from telephone equipment; features long crank with shaft extending 2.5" from

generator and mount plate that allows left or right side or bottom mounting. Use to replace "dead" generator in antique phone or for remote bell ringer or as "worm shocker". #4#. #MAG-GEN-1085, used, \$15

G-25 or = HANDCRANK GENERATOR, similar to above but armature in metal can; used in various mil-phon equip. 4" Lx2.5" dia; #4. USED \$16. G-42 GENERATOR, p/o TA-312, \$16.50. GN-38B GENERATOR, p/o EE-8, TP-9. USED, \$17.

DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16" Lx1/16" dia; o/a 2-7/8x1-1/8. #AST-GK26 \$7.95

DC STEPPER MOTOR

PRINTER STEPPER MOTOR usable for robotics and similar projects; rated 3.5 VDC 2.7 amps. 1/4" dia shaft extends 1/2" L both ends. Driver circuit required; o/a 5.3" Lx3" dia, 4 lbs sh. Rapidsyn #23D-6306, USED, \$9.95

GE MINICOR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf 280 VAC capacitor; o/a 4x10x3, 6 lbs sh. GE #SKM49NG, used, \$8.95. CAPACITOR for above, non-PCB, \$3.00

90 V SHUNT MOTOR

1/4 HP 90 VDC SHUNT MOTOR, 1750 RPM at 2.8 amps continuous. Has bottom mount plate; Shaft 1.8" Lx5/8" dia; o/a 10.8" Lx6" dia, 24 lbs sh. Gould-Minarik mfg. #1/4-56C, USED, \$49.50

115 V AC-DC MOTOR, starts at 25 VDC, runs CW approx 7000 RPM 1/8 HP. 2.3x3x4.5 + 1.5" Lx0.4" dia spiraled shaft; 3#. #AC-DC-H102, \$3.

DC GEAR MOTOR

Powerful reversible motor produces strong torque at 612/24 VDC case common turning 24/50 /100 RPM respectively. 4.3x6 x2.8 plus 4.5" Lx5/16" dia 90° worm drive shaft; 3#. #GM-3455, NEW \$15.

ROBOTICS MOTORS

15" STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed and performance w/driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs. #RBM-2-62, 2 ohm field, \$12.50. #RBM-4-62, 4 ohm field, \$17.00

15" 4-PHASE VR STEP SERVO, 5 ohms 1.5 A @ 28 VDC input pulse. 2x 1/2" dia shaft; o/a 3x2x3, 2 lbs sh. Made in Canada; removed from equipment. #20M34C1, \$9.95

26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4x1 1/2" dia, 1 lb. #SR-215 NEW \$6.95

BOMMAR/HARVEY 12 VDC DUAL SHAFT MOTOR, 2500 RPM no load; 1 amp 2000 RPM 3.4 oz-in load or 1.8 amp 1000 RPM 7.4 oz-in load. Stall current 2.5 amps. Shaft 1/8" dia, one 1/2" L threaded; other 1/4" L. O/a 2.8" Lx1.3" dia, 1 lb. #1442-009, \$8.95

GLOBE 85 RPM

27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no load speed, 1/4 duty cycle; estimated 75 RPM 100 oz-in torque when under load. Shaft 1/2" L x 5/16" dia with ear. O/a 4x1.3x1.3, 1 lb. GLOBE #5A1231, used, \$14.95

240 RPM 115 V 60 Hz GEAR MOTOR for intermittent use; starts @ 32 V approx 200 RPM. Increased voltage increases torque. Gearhead extends 2.8" beyond motor and has 1.1" Lx1/4" dia shaft. Motor 2.8x2.8x2.4 plus 5/8" Lx3/16" dia shaft for fan on rear, 3#. #MOL-2460, unused, \$6.

ROWE 6-12 VDC GEAR MOTOR, 40-75 RPM; good for small scale animation projects. Draws approx 250 MA loaded. Shaft 3/8" Lx1/8" dia w/flat O/a 2.5" Lx1.4" dia, 1#. #500-6-12, NEW \$4.50

AUTOTROL MODEL 200 TIMING MOTOR, 5.4 VDC 19.9 RPM; draws about 100 MA with good torque. Shaft 3/8" Lx1/8" dia with flat; o/a 2.5" Lx1.8" dia, 1 lb. #200-266A, NEW, \$4.75

160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia 1" Lg shaft. O/a 3x4x3, 3 lbs. #160DRV/618 used \$8.95

BODINE AC GEARHEAD MOTOR, 200 RPM 1/7 HP 35 in-lb torque, counter-clockwise rotation; 115 VAC 60 Hz input. Shaft 1.3" Lx5/8" dia w/3/16" square key. O/a 8.5" Lx5.6" dia; 14 lbs sh. #ECCI-35E200, used, \$28.95

CHILD'S PHONOGRAPH TURNTABLE, 7" dia plastic platter with 115 VAC 60 Hz motor; selector switch for 33-1/3 or 45 RPM. Designed for child's record player. 2 lbs. BSR #A14AC37, NEW, \$3.

INDUCTION MOTOR, Eastern Air Devices J71-B, 115 VAC 60 Hz 0.25 amp input for 1/40 HP 3100 RPM output. Quiet running; good replacement motor for blowers. 3.1"x3.5" dia, shaft 0.9"x0.3" dia; 3 lbs sh. External capacitor required. #548-2239, unused \$4.95; 4 mf CAPACITOR, \$1.

#A7155 DELCO DC MOTOR, 28 VDC 2.4 A 1/30 HP 3600 RPM. Size: 5x2x2" dia; shaft 1" x2" dia, 2 lbs. Unused \$4.

MULTI-SPEED PM MOTOR

MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.035 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.5" dia collar; geared shaft 0.6"x0.4" dia. 3 lbs sh. Sperry #2960031, used, \$12.95 \$8.95

HIGH TORQUE DC MOTORS

SATELLITE ANTENNA POSITION MOTOR by Brevel, 36 VDC 112 RPM gearhead motor operates on lower voltages 12 VDC @ 32 RPM or 25 VDC 70 RPM with high torque. Gearhead mounting surface 3.3x3.3 x1.9; shaft 1" Lx1/4" dia. Motor 3.4" Lx1.7" dia; 4# sh. Brevel #780-953075, \$14.95 \$16.

1/4 HP 12 VDC

DUNRITE 12 VDC PERMANENT MAGNET 1/4 HP MOTOR, 5300 RPM cont-duty; 12 inch-lbs of torque. Shaft 7/8" L x 5/8" dia both ends w/pinned gears. 4.9x9x4.5. 13#. #629A355, \$45 \$35

SELSYN TRANSMITTERS

SIZE 6G SELSYNS operate from 115/90 VAC 60 Hz. In pairs, these are usable for precision rotation and position remote indicating tasks such as antenna positioning, etc. Control & indicator devices not provided. Styles vary; each 7.5" Lx4.5" dia, 12#. USED, \$32 ea; \$60/pair 5G SELSYNS, as above 6" Lx3.5" dia, \$28 each UNITED STATES NAVY SYNCHROS, Description and Operation, a copy of Publication #OP 1303 printed April 1958; 100+ page primer about selsyn/synchro theory and types. \$12.50

PHASE SHIFTER, unsymmetrical resolver; rotor 1 phase 5 V 30 Hz, stator 2 phase 5 V 30 Hz. 1.4" dia X 2" L. #PS-17-E-1, used, \$10. SPERRY R5663478 SYNCHRO REPEATER PAIR, operable on 24 V 60 Hz; each 3" Lx2.5" dia + 3/4" Lx1/8" dia shaft USED, \$30.00/pair. AY-231 or equal DIFFERENTIAL SELSYN, 40 Hz 3 O 11.8 V 11; 1.5" Lx1.5" dia. Used, \$4.50 + 1HCT-MK11 CONTROL TRANSFORMER 90/55 V 60 Hz 3.6" Lx2" dia, 2 lbs sh. Used, \$20.00

15CX4 CONTROL XMITTER 115 V 400 Hz, used \$5. 23CT6 TRANSFORMER 90/1V /degree 60 Hz, \$12. 23TR4 RECEIVER, 115 VAC 400 Hz, used, \$10.00 23WA-702 RESOLVER, 0-30 V 400 Hz, unused \$10

2J1H1 SELSYN DIFFERENTIAL GENERATOR operates @ 57.5/57.5 V 400 Hz or @ 28 V 60 Hz. 4.3" Lx2.3" dia; 1 lb. Used-less connector caps, \$7. 2J1G1 CONTROL TRANSFORMER, useful in pairs @ 24 V 60 Hz for position indication. Used w/ caps, \$18 ea.

TACHOMETER GENERATOR, motor 26 V 400 Hz 2.5 g; generator 18V 400 Hz 0.3 V/1000 RPM. No load speed 10000 RPM. 2-1/8" Lx1" dia; 3/16" Lx1/8" dia shaft. #TACH-SKL-MOD, \$7.95

GENERAL ELECTRIC REVERSIBLE FAN MOTOR, ball-bearing 115 VAC 60 Hz 1 amp 225 RPM motor. Requires use with fan blades unless cooled by other means. Has mount flanges and 5 mf capacitor; 4.5" Lx5.5" dia plus 1.5" Lx5.5" dia hollow shaft, 11#. #5KCP39EGH210, NEW, \$15.

PRINTER MOTOR ASSEMBLY, 24 VAC 60 Hz geared to about 4 RPM; can be wired for clockwise or CCW rotation. 2.8x2.5" dia motor on 3.8" sq metal plate; 2#. #H12-HO375R, used \$3.95; 3/#10.

GLOBE 27 VDC MINI-PM MOTOR, p/o Collins 618T P-A; splined shaft 1/4" Lx1/8" dia; o/a 1.7" Lx0.9" dia. #41A205, used, \$7.50

GLOBE 27 VDC 1/100 HP MOTORS, 2.5" Lx1.3" dia #C-25A201, 8000 RPM, p/o T-195, used, \$7.75 #C-25A686, 11000 RPM, p/o ARC-45, used, \$7.95 #C-25A512, 15000 RPM, p/o 180L, used, \$8.00

24 VDC PM MOTOR, will run from 6 to 30 VDC @ approx 200 RPM per 6 V. 5/8" dia shaft is 2" L one end, 5/8" L on other. O/a 10" Lx3.8" dia, 16 lbs. #DH-4000-AD7 (or equal), USED, \$39.50

75 VDC 6 AMP 300 RPM MOTOR. 0.21 HP; will run on lower voltage at reduced (but strong) power. Shaft 1.8" L x 5/8" dia; O/a 10.8" L x 4.8" dia with 5.3" sq mounting flange. 26 lbs. Ind-Gen #5040-4, used \$69.50

VERTICAL GYRO

115 VAC 400 Hz VERTICAL GYRO ASSEMBLY with 24 VDC caging solenoid pictured with cover removed. 360 degree roll; +/-85 degree pitch. Gyro output is to be used with selsyn-type receiver indicators. 6x4x4 in sealed can; 6 lbs sh. #VG-1701 used, \$19.95 \$15.

38-54.9 MHZ RADIO SET

AN/VRC-18 RADIO SET for 38-54.9 MHz FM range as used in 1950-60's military vehicles. Includes GOVERNMENT-RECONDITIONED units RT-68 transceiver, R-110 receiver, PP-112 & PP-282 12 VDC power supplies & RT-327 rack. (Paint color may not match.) Also with USED/UNUSED accessories M-29 mic, H-63 and H-113 headsets, GSA-6 chest set, LS-166 speaker, AB-15 mast base, CW-26 antenna bag, cables, manuals, etc. Meter & knobs removed from radios but "used" replacements supplied for customer to install. 20x13x13; o/a 185 lbs. \$275. AN/VRC-17 SET as above but 28-38 MHz using RT-67 transceiver & R-109 receiver, \$265.



RT-66/68C TRANSCIVER

RT-68/GRC TRANSCIVER, 38-54.9 MHz FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing F1; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LD) or 15 W (H1). Also meter to monitor transmitter filaments and 90 V input. Requires PP-109 or -112 power supply. Tubes 4/104, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1A4, 1S5, 4/304, 3/3A5, 2/3B4, 6AK5, 9x13x11.3, 42 lbs. Used, \$85.00



RT-66, like RT-68, except 20-28 MHz, \$75.00

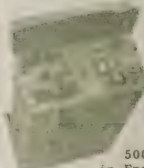
6 METER DIPLEXER

CU-2194/URC DIPLEXER, passive two-port notch filter and combiner network which allows simultaneous use of two transmitters, receivers or transceivers on a common antenna provided that operating frequencies are slightly offset. Usable over range of 30-76 MHz FM and intended for use with PRC-25-77 and VRC-12 transceivers; will work commercial 6-meter equipment Has NULL METER and separate TUNE controls and Fine-Coarse-Monitor MODE SWITCH, and RTI-RT2 BNC connections. Unit may also be used as man-portable relay terminal. Maximum RF power capability to each channel: 65 watts continuous. Operational isolation: 45 dB min @ 2 MHz separation. Insertion loss: 2 DB max; VSWR 2.0:1 max. 4x11x7, 10 lbs sh. UNUSED, \$40-50 \$39.50; MANUAL, \$10.



BC-1000 RADIO SET

BC-1000 BACKPACK TRANSCIVER SET, WW-2 and Korean War sets from NATO-surplus. 40 to 48 MHz FM range in forty-one 200 KHz steps. Power output: 300 MW RF, 200 MW AF. Built-in 43 MHz crystal calibrator. Tubes 1A3, 6/1L4, 3/1S5, 6/1T4, 1R5, 2/3A4. Requires 4.5 VDC 500 ma & 90 VDC 25 ma. Controls in English, W/C-128 battery box & SCR-300 manual, 5.6x12.3x14.4, 28#. USED \$95 BC-1000-EUR, non-English markings. USED \$85 ACCESSORIES for BC-1000 with radio purchase: AN-130 WHIP ANTENNA, used, \$17.50 AN-131 ANTENNA, 8-section, 10'. Used \$17.50 ST-55 BELT, used, \$7.50; M-391 PAD, \$4.00 CD-318 SWITCH no straps, \$7.00 P-45 LIP MIC, \$3. BG-150A BAG, "poor", \$8.



PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. 7.3x9x13, 39 lbs sh. Used, \$25.00 \$18. Gov't reconditioned, \$35.00

PP-109/GRC SUPPLY, as above but 12 VDC 12 amp input. Used, \$34-50 \$24. CX-1211 interconnect cable RT/PP units, \$7. MANUAL for AN/VRC-8-9-10, partial repro, \$12

OTHER GRC-RADIO ITEMS, limited supply. USED: C-433 REMOTE CONTROL p/o GRA-6 for GRC-3-8 remote & telephone patch; Used, \$18.00 C-434 LOCAL CONTROL p/o GRA-6, used, \$22.00 C-435 CONTROL for duplex GRC-3-9; used, \$15 C-375 CONTROL w/8' cable, \$25; NO cable \$15

PRC-8 TRANSCIVER

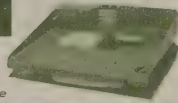
RT-175/PRC-9 TRANSCIVER, part of portable backpack set (accessories listed below) covering 27.9-38 MHz FM continuously tunable with 0.9 watt transmit output. Controls for Volume, Tune, Squelch, Pointer Adjust, and Dial Lock; tubes 3/56T8, 2/56T2, 3/56T6, 1A4D, 5A6. Requires BA-279 battery which supplied +1.5/6T/135 & -6 VDC. BATTERY CABLE IS PRAYED! 3x9.5x9, 10 lbs. Used AS-16, \$57. RT-176/PRC-10, as above but 38-54 MHz, \$62. *****



MANUAL for PRC-8-9-10, partial repro, \$10. MANUAL for PRC-9A-10A, partial repro, \$10. CY-744/5007 BATTERY BOX if above, \$6 w/set. BA-279 BATTERY, unused-tested, \$7.95; 12/572 B-33/PT HANDSET, used-checked, \$17.50 AT-272/PRC RIBBON ANTENNA & flex base, \$10. AT-271/PRC ANTENNA, 7-section 8.5', used \$12. AB-129/PRC RUBBER BASE for AT-271, used, \$4. CW-216 ACCESSORY BAG f/PRC-8-9-10, used, \$6.

VRC-12 MOUNTS

MT-1029/VRC VEHICULAR MOUNT for RT-246 or RT-524/VRC-12 transceivers which are still the standard field radios of the U.S. Army. 5x12.5x16, 19 lbs. Used, \$29.50 RECOND, \$45. ***** MT-1898/VRC MOUNT for companion R-442 auxiliary receiver; 5x6x12.3, 15 lbs. Used, \$25. RECOND, \$32.



ACCESSORIES

H-189 or H-250 HANDSET, used, \$17.50 ea M-80 MIC w/U-229 plug, used, \$10.00 LS-166 SPEAKER with U-77 plug, used, \$15.00 LS-454 SPEAKER with U-229 plug, used, \$16.00 WALL MOUNT BRACKET for LS-166/454, \$2.50 ea GRC/VRC MALE CONNECTORS, specify type and equipment used. Used-out of \$3.00 each AUDIO PLUGS, used: U-77, \$3.00; U-229, \$4. CX-1211 CABLE, RT-66-67-68 to PP-112, \$7.00 CX-2031 BATTERY CABLE f/AM-398 or DY-88, \$8. CX-12195A Y-CABLE, 6 ft with 5-pin MS-3116-14-SS plug to fit U-383/VR, 4-pin MS-3116J-8-4P to fit AM-4979 speaker, 3-pin SC-D 339543 to fit MX-7777; 3 lbs. UNUSED, \$12.

AMPLIFIED SPEAKER

AM-6747/V AMPLIFIED SPEAKER for monitoring audio of R-442 & RT-246/524 radios from remote location. Connection for H-189 or H-250 handset to allow remote keying of transmitter. Requires 28 VDC; can be modified for 12 VDC. Similar to AM4979; schematic inside. 5.6x5x3 + 2" top bolt; 6 lbs. UNUSED, \$35.00



AM-4979/GRC, similar to AM-6747 except has 6 ft cord with U-229 plug. USED-CHECKED, \$30. 6-PIN POWER CONNECTOR f/ AM-4979-6747, \$6.00

AM-4949/U AMPLIFIER, a microphone amp in vehicle intercom systems using VRC-12 series radios. Usable with M-80 mic, H-189/250 handsets, H-161 headsets or similar. Has two connections for U-229 plug, Volume, ON-OFF, and power light. Requires 28 VDC; 4.5x4.5x3, 5 lbs sh. UNUSED, \$19.95

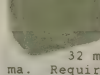


AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70 transceiver; also works as power supply when PP-281 or -282 modular supply is installed inside AM-65. 4.4x8x13, 17 lbs sh. Used, \$19.95 PP-281 POWER SUPPLY, allows 12 VDC operation of RT-70/AM-65; 68. Used, \$15. PP-282 SUPPLY for 24 VDC power. Used, \$12.00 PLUGS for RT70/AM65 interconnect, used \$3 ea MANUALS for RT-70 or AM-65, \$5.00 each



GN-50 GENERATOR

GN-58 HANDCRANK GENERATOR for BC-1306 & RT-77/GRC-9 radios. Outputs 425 VDC 115 ma, 105 VDC 32 ma, 6.3 VDC 2.5 amps, 1.4 VDC 465 ma. Requires GC-7 cranks (not available). 10.5x7.5x8, 27#. USED, \$40. CD-1086 CABLE, GN58 to RT; 44", \$15. LG-3 LEGS used \$5 ea LG-2 LEG/SEAT for GN-58, 12 lbs. UNUSED, \$17.



GRC/PRC BATTERY TEST

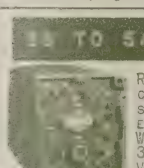
AN/PSM-13 BATTERY TEST SET; DESIGNED TO CHECK GRC AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -386/PRC-25, -398/PRC-25, -399, and -505. METER INDICATES BAD-GOOD (FS) MA. WITH ADAPTERS U-240, -241, -242, -297, -314, -315, -346 AND CANVAS CASE. SHPG, WT: 7 LBS. PRICE: USED, EXCELLENT, \$24.95



TECH MANUALS, (REPRO-partial reproduction): RT-186/PRC-6, \$7.50 AM-598, \$4.00 RT-PRC-8-9-10 or PRC-9A-10A, REPRO, \$10 each BC-66-67-68, \$7.50 PP-109-112, \$5.00 R-108-109-110, \$7.50 AN/GRA-6, \$7.50 RT-70/GRC, \$7.50 AM-65, \$5.00 AN/GRC-3-8, \$12. AN/VRC-16-18, \$7.50 AN/VRC-8-9-10 REPRO \$12. AN/GRR-5, \$7.50 AN/PRR-9/PRT-4 REPRO, \$15

WM-46 CABLE

CONTROL CABLE used in GRC-Series radio equip; rubber-covered w/ braid. Ten conductor #14, five which are braided. 10 ft (3#), \$10. \$80/100 ft. CO-213 CABLE for SCR-508/608, 35 ft, \$10.00 CX-7867 AUDIO CABLE, 25' U-229 & -228, \$10. CX-4720/VRC DC CABLE, 10 feet, \$12.00 CX-4721/VRC DC cable, 2.5 ft, \$9.00 CX-4722/VRC Control Cable, 5 feet, \$10.00 CX-4723/VRC Control cable, 1 foot, \$7.50 CX-8652 COILED Y-CORD f/H-161, 2/U229, \$10. CX-2583 w/4-pin UML220FA17 female; 5', \$7.50



38 TO 54 MHZ RECEIVER

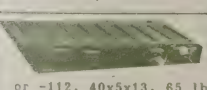
R-110 RECEIVER 38 to 54 MHZ FM CONTINUOUSLY TUNABLE, VARIABLE SQUELCH and 100 OHM OUTPUT IMPEDANCE 600 OHMS, 4.3 MHz, 1 ft. WITH TUBES 3/104, 2/1L4, 1A3, 2/3A5, 1S5, 2/304, 2/6AK5 & 0B2. VOLTAGES REG. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS. SIZE: 9x13x7; WT: 32 LBS. Used, \$65.00 RECEIVER, same as R-110 except 20-28 MHz. Used, \$22.00 GOV'T-RECONDITIONED, \$36.00 RECEIVER, same as R-110 except 27-39 MHz. Used, \$28.00 GOV'T-RECONDITIONED, \$42.00



R-100

R-100

PP-282 POWER SUPPLY 24 VDC for R-108-109-110 receivers; mounts inside, 48. Used, \$12.00



MT-298 SHOCKMOUNT RACK, p/o VRC-1-2-3 set; holds two RT-66 -67-68 & two PP-109 or -112. 40x5x13, 65 lbs sh. USED, \$35.00

MT-327 MOUNT holds one RT-66-67-68, one R-108-109-110, one PP-109-112; 32#. USED \$20

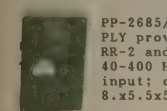
U-383/VR POWER SUPPLY CONVERTER for RT-841/PRC-77, clips onto RT-841 like battery box allowing operation from 24 VDC input rather than 12 VDC. Not usable with RT-505/PRC-25 unless bias voltage modified. 10x4x2.5, 4 lbs. Used, \$22.95; CONNECTOR for U-383, \$6.00

AN/GRC-109 RADIO SET

T-784/GRC-109 TRANSMITTER, 3 to 22 MHz CW in bands 3-6, 6-10, 10-17 and 17-22 MHz at 10-15 watts depending upon frequency. Crystal control; tuned by adjusting 3 panel controls to tuning chart. Built-in CW key; uses 72 to 1200 ohm single wire antenna. Has codeburst capability, if used with GRA-71 (not available). Tubes 2E26, 6AC7. Requires 450 VDC 100 ma & 6.3 V 1.2 A; 8.6x5.5x5.5, 12 lbs. Used, \$25. RT-3 TRANSMITTER, similar to T-784 but without code burst capability. Used, \$24.95



R-1004/GRC-109 RECEIVER, covers 3 to 24 MHz AM-CW in bands 3-6, 6-12, and 12-24 MHz; 455 KHz IF. Bandwidth 9 KHz; 30 MW audio into 4000 ohms. With tubes 4/174, 1U5, & 1L6. Requires 1.5 VDC & 300 ma and 90-108 VDC 20 ma. 8.6x5.5x5.5, 12 lbs sh. Used-repairable, \$59.50



PP-2685/GRC-109 or RP-2 POWER SUPPLY provides voltages for R-1004/RR-2 and T-784/RT3 from 75-260 VAC 40-400 Hz input. Meter monitors AC input; connections for Rx and Tx. 8.5x5.5x5.5, 19 lbs. Used, \$34.95

PP-2684/GRC-109 POWER SUPPLY, like PP-2685 but also operates from 6 VDC 13 amp input; 10x8.5x5.5, 28 lbs sh. Used, \$25.00

MANUAL for GRC-109, partial repro, \$10.00
CN-590/GRC-109 VOLTAGE REGULATOR, for use with G-43 generator and R-1004; 6 ft cord w/PL244 plug; 4#. Used, \$14.95;

PRC-41 UHF RADIO

RT-695/PRC-41 UHF MANPACK UHF TRANSMITTER, 225 to 400 MHz AM in 100 KHz steps using mechanical digital counter; output at least 3 watts over range. Also has guard channel, Volume, Squelch, and U-77 connection for H-33 handset. Solid-state except for tubes 6442, 4/7077, and 4/7544. Requires 24 VDC 3 amps; 14x11.3x4.5, 22 lbs sh. Used-repairable, \$285.00 \$149.50

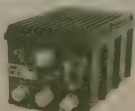
MANUAL for PRC-41, partial repro, \$20.00
H-33/PT HANDSET, used-checked, \$17.50
AS-1405 DIRECTIONAL ANTENNA without AB-777 support, adapter & case; 13#. USED, \$35.00

PP-3700/PRC-41 AC POWER SUPPLY, provides 26 VDC for RT-695/PRC-41 from 115/230 VAC 50-400 Hz input. Clips onto and directly connects to RT. CX-8686 cable (not available) connects PP to MT-2976 rack. CX-8687 (not available) connects PP-3700 to AC source. 7.8x11x4.1, 20 lbs sh. USED, \$75.00 \$65.
MT-2976 VEHICLE MOUNT for RT, 9 lbs., \$25.00
MT-2977 VEHICLE MOUNT for PP3700, 4#, \$9.00

R-442/VRC RECEIVER, companion to RT-246/524 radios. Covers 30-75.95 MHz FM in two bands; 920 channels, 50 KHz steps. Requires 26 VDC 2 A. MT-1898 mount & power cable included. 5.3x8.7x13.5, 30 lbs. USED-REPAIRABLE, \$325.

PRC-41 UHF POWER AMP

AM-6669/PRC RF POWER AMPLIFIER, designed for use with PRC-41 transmitter, but usable with other 225-400 MHz transmitters such as PRC-66, ARC-45, etc. Power output: 10 watts from 2-3 W input; "N" connections. Solid-state; 24 VDC required. 5.3x6x9.8, 12 lbs sh. USED, \$99.50



2-172 MHz USB 100 WATTS



RT-671/PRC-47 HF TRANSMITTER, 2 to 11.999 MHz USB (voice and CW-800 Hz) in 1 KHz steps. Output 100 watts PEP (Hi) or 20 W (Lo). FSK possible with accessory converter (not available). Transistorized except for PL-177WA tube in power amp and 5907, 7761, and 7905. Has S-place mechanical digital tuning, P-A Load and Tune controls, and XMTR Output Meter. Designed for field or vehicular use; operates from either 24 VDC 20 amps or 115 V 400 Hz. 7x 21.3x13.5, 45#. Used-repairable, \$380 \$150.

MANUAL for PRC-47, partial repro, \$25.00
AS-1320 15' WHIP ANTENNA w/MT-2786 LEGS, \$24.
AS-1321 LONG-WIRE ANTENNA, 3 lbs., \$15.00
J-45 KEY and legion, used, \$25 w/RT-purchase.
H-33/PT HANDSET, used-checked, \$17.50
LS-166 SPEAKER, used-checked, \$16.00
CX-8396 "Y" CABLE for H-233 to RT, \$15.00
CX-8393 50 ft AC CABLE, \$12.00
CX-8394 10' DC Cable, \$10. CX-8395 CABLE 8". RUCKSACK SET with frame and straps, \$20.00
CY-3700 ALUMINUM TRANSIT CASE, 65 lbs, \$35.

PRC-47 ACCESSORY PACKAGE! Above accessories and manual; 100#. Used, \$165 w/set purchase

RT-976A/PRC-75 UHF



RT-976A/PRC-75 UHF TRANSMITTER, rugged handheld ground-to-air tactical synthesized radio covers 225 to 399.95 MHz AM-MCW in 50 KHz steps (3500 channels). Power output >1 watt. Has three thumb operated dials to set frequency; design freq-accuracy 1 part per 100000. Also has 1000 Hz audio beacon-DF tone. RF input 50 ohms; audio output 600 ohms. Requires 18-30 VDC from battery pack (not supplied); no accessories; 1.6x4.3x8, 6#. Used-repairable w/book. \$275.00 \$250.

AS-2447/PRC-75 RIBBON ANTENNA, fastens to RT-976/PRC-75 225-400 MHz handheld transmitter; 14.6" L, snap fastens. NEW \$10.00
UG-1884/PRC-75 ANTENNA ADAPTER, fits in place of AS-2447 and allows for BNC coax antenna connection. NEW \$9.95
CX-12162 DC/AUDIO DUAL CABLE connects to PRC-75; one branch has 4-pin battery connector, the other mates to UG-229. NEW \$15.

PRC-25 TRANSMITTER

RT-505B/PRC-25 BACKPACK TRANSMITTER, 30-75.95 MHz FM in bands 30-52.95 MHz (Lo) and 53-75.95 MHz (Hi) with 50 KHz spacing. Output: 1.1 to 2.0 watts; 150 Hz squelch. Transistorized except 2D4F tube in power amp. Requires 3 VDC 0.4 amp and 15 VDC 1.4 amp supplied by BA-4386 battery. RT-505B has modified A25 audio module for broadband use with C-7673/PC-1 and CU-2194 diplexer; 4x11x4, 18#. Used-complete, \$275.00 \$250.

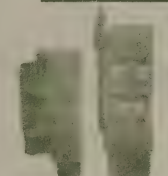
MANUAL f/ RT-505/PRC-25, partial repro, \$20.
AT-892/PRC-25 RIBBON ANTENNA, used, \$12.00
AT-271/PRC 7.5" SECTIONAL ANTENNA, used, \$12
AB-591/PRC RUBBER BASE for AT-271, used, \$6.
CW-503/PRC ACCESSORY BAG for PRC-25, used \$6
H-250 HANDSET for PRC-25, USED, \$17.00
OPERATOR'S MANUAL f/PRC-25 & AM-2060, \$10.00



BATTERY CHARGER TRAINER, small electronic unit operates from either 115/230 VAC or 28 VDC and charges at 400 mA constant current rate. Includes AC & DC input cables, output cable, and padded canvas carrying case. Charger 5.5x6x9.5, 3 lbs net; 8 lbs sh. #BC-M820/841, unused. \$34.95

FIELD CHARGER

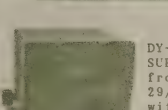
PRR-9/PRT-4A RADIOS



GOVERNMENT-RECONDITIONED PRR-9 & PRT-4A HELMET RADIOS, each single channel with crystal for 51 MHz FM operation; CARC-color. PRR-9 RECEIVER requires 5 V 25 ma battery power; 7x3.5x1.5, 1 lb. PRT-4A TRANSMITTER has two channel selection and Tone - Voice switch; 450 MW output channel 1. Requires 12 VDC battery power; 9x3.6x2, 2 lbs. AN/PRR-9 with earphone, LESS antenna, \$50.00
AN/PRT-4A with antenna & battery box, \$50.00
MANUAL for PRR-9/PRT-4A, partial repro, \$15.

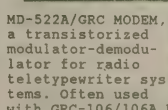
AN/PRR-9 (XE-9) SET, updated PRR-9 with "squelch" and requires only 3 VDC input from BA-4534 battery (not available). Set includes AS-1998 antenna, H-302 earphone, lanyard and operator's book; 6 lbs. UNUSED, \$90 -
AN/PRT-4 w/antenna & battery box, USED, \$30.
AN/PRT-4 "AS-IS", less crystal, antenna, and battery box; for parts or experiment, \$16.

DY-88 POWER SUPPLY



DY-88/GRC-9 DYNAMOTOR POWER SUPPLY, powers RT-77/GRC-9 from 6, 12 or 24 VDC input @ 29/14/6.7 amps max; usable with other radios. Output 580 V 100 ma, 105 V 45 ma, 6.3 V 2 A, 1.4 V 500 ma, 6.3 V 575 ma. NATO surplus; 13x11.3x9.5, 40 lbs. USED, \$75.00; CX-1031 POWER CABLE, 8', \$8.

MD-522A FSK CONVERTER



MD-522A/GRC MODEM, a transistorized modulator-demodulator for radio teletypewriter systems. Often used with GRC-106/106A HF radios and teletypewriters TT-4A, TT-76, TT-98, UGC-4, or UGC-74. Permits transcription of voice, narrow (NSK) or frequency (FSK) shift keying, freq-diversity, and NSK/voice. Center frequencies: 2000 Hz FSK, 2805 Hz NSK, 425 Hz diversity. Shifts 850 Hz FSK, 85 Hz NSK. Operates one-way or duplex Send-Receive. Internal loop voltage 120 VDC 60 ma max. Signal mode neutral. Signal level: 0 ma Normal Space; 20 or 60 ma regulated Normal Mark selected on front panel. Has 2BPL CRT for visual display of signals; also U-77 mic and 600 ohm audio connections. Original voltage-current meter removed by gov't, but we will supply usable replacement for customer to install. Most connectors not available. Requires 24-28 VDC 1.4 amp; 7x18x13, 41 lbs. USED, \$165.00; POWER INPUT CONNECTOR, \$7.50
MT-3140 MOUNT for MD-522, used, \$20 w/set.
MANUAL for MD-522A, part-repro, \$25 w/set.

UGC-74 TTY



AN/UGC-74 TELETYPEWRITER full duplex unit designed for use with GRC-106 in GRC-142 RTTY systems to prepare, edit, store, transmit, receive and print communications in ITA2 (Baudot) or ASCII codes in asynchronous or synchronous modes. Speed options 60 to 600 wpm. Has standard QUERTY keyboard plus four special keys. Indicators: End of Line, MEM Full, MSG RCVD, Paper Low, BAT, XMT. Accepts single or multicopy 8.5" wide roll paper. In transit case; requires 22-30 VDC and 115/230 VAC 50-60 Hz. 9.5X 17.5X24, 99 lbs. USED, not tested, \$85.00
OPERATOR'S MANUAL f/UGC-74A, part-repro, \$17
PARTS LIST for UGC-74A, partial repro, \$17.

VERY HIGH VOLTAGE

DC POWER SUPPLY with 107-125 VAC 60 Hz primary. Two outputs: +5.4 to 5.75 KV @ 140 to 300 uv and one output -5.1 to -5.3 KV @ 100 to 270 UV. 12.5x2.5x4.3, 12 lbs sh. #GE9763T20296S, USED, \$14.95

HV DC - DC CONVERTER

HV DC to DC CONVERTER p/o CRT HV module; input 5-15 VDC 100 ma; output 4.5 to 13.5 KV. Also 135-402 V & 70-90 VDC. Potentiometer. Use in experiments or in "bug zipper." 3.2x4.2x1.4, 3 lbs. #ULC-14-07C, NEW, \$12.95

28 VDC SUPPLIES

Heavy-duty transformer type modular DC supplies trim pot adjustable outputs: 115/230 VAC input; DELTRON Q28-3.1, 28 VDC out @ approx 3 amps. Current limit set at 8 amps but runs very hot to maintain 28 VDC. 7x4.8x2.8, 10W. NEW, \$24.

POWER ONE #CP366A DUAL DC SUPPLY, outputs +24 VDC 3 amps with current limit adjust and -12 VDC 2 A. Also unregulated +5 V 0.75 A, -6.6 V 0.5 A. 5x6.8x4.8, 11 lbs. NEW, \$28.95

DRESSEN-BARNES DC SUPPLY, output -52 VDC 3 amps w/ voltage adjust. Input 120/240 VAC 47-63 Hz indicated. 5x19x10, 33#. Used, \$45.

POWER MATE PXC-C-36 MODULAR SUPPLY, output 36 VDC 2.3 A: 3.1x5x9.5, 9 lbs sh. \$16.95

24 VDC 10 AMPS

ELPAC DC POWER SUPPLY output +/-24 VDC 10.4 A from 120/240 V 50-60 Hz input. Modular-type; 5.8x10.3x10 34#. #ELV250-24, UNUSED, \$49.50

5 VDC 3 AMP

EXELON DC REGULATED SUPPLY, 5 VDC 3 amp and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. "L"-mount; 5x5.3x2.8, 4 lbs. #PS-1545, unused, \$9.95

10/4.5 VDC 15/3.5 AMP

DC POWER SUPPLY provides 10 VDC 15 amp and 4.5 VDC 3.5 A outputs from 100 to 127 VAC 60 Hz input. Wire output in series for 14.5 VDC at 3.5 A. 7x12x4.5, 17 lbs. #PX-2939, \$14.95

PRINTER POWER SUPPLY, DC rectification required but transformer has AC outputs 18 V 5.4 amps, 25-10-0-10-35 @ 5 V 5 amps & 25 V 1 A from 115 VAC. Has line filter, interlock relay & fuses. 11x6x4, 18 lbs. #803-101, \$12.

COLECO DRIVE SUPPLY

COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With controls and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, \$12.95

PP-3920A DC SUPPLY

PP-3920A/FLR-9 DC POWER SUPPLY with outputs -12 VDC 8 amps and +12 VDC 2 amps. Has 3.5" dia meters 0-15 VDC and 0-12 AMP DC, switch for Output Select +10/-10 VDC and Voltage Adjust trimmer. Terminal strip on rear; mating connectors not available. Solid-state; requires 115 VAC 48-63 Hz. 4.8x19x18, 46#. Used-repairable, \$35.

POWER SUPPLY REGULATOR BOARD for supplies +/-5 regulated 3 amp; upto 24 VDC unregulated. Capacitors two 15000 mf 15 V, 33000 mf 30 V, 2/KBPC rectifiers, two 2N6576, 2/2N4441 SCR. Regulators fixed sealed circuit boards are replaceable. 7.8x6x4; 3#. #MEND-REG-5V, \$6.50

CIRCUIT SUPPLY MODULE

POWER SUPPLY MODULE with 3-conductor cord, fuse, 100/115 V input switch, and 50V Voltage switch. Outputs: 18 V 350 ma and 30 VCT 600 ma. 50X switch results 9 V 350 ma and 15 VCT 600 ma. 6x4 #2,3, 4 lbs. #PSM-4404-87AD, used, \$8. \$9.75

MODULAR SUPPLIES

AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/230/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW \$17.95

SMALL TOOL SUPPLY

DC POWER SUPPLY designed for small tool rated 12 VDC @ 1.5 amp under inductive load like a motor. Output over 20 VDC under lesser loads; can be varied somewhat depending on load. Includes 6 ft AC cord; requires 115 VAC 60 Hz input; 2.5x2.5x5, 3#. #DR-12VPS, NEW, \$10.95

VACUUM CAPACITORS

CERAMIC VACUUM VARIABLE CAPACITORS, removed from equipment & tested. Jennings or equal mfg. #CVA-7-3.5, 7-3.5 pf 35 KV 4.3"Lx3" dia, 5#. NEW \$55 #CVCH-1000-5, 7-1000 pf 5 KV; 7.8"Lx3" dia, \$5.165 #CVD-1000-7.5, 20-1000 pf " dia, 9 lbs sh. \$195.00 #CVD-1500-10 or = 35-1500 pf 10 KV peak; 9.8"Lx5.6" dia, 13 lbs sh. \$315.00 #CVD-2300-10 or = 50-2300 pf 10 KV peak; 10"Lx5.6" dia, 13 lbs sh. \$375.00 #CVFB-1500-40, 20 to 1500 pf 40 KV peak; 12.5"Lx6.5" dia, 26 lbs. UNUSED, \$750. \$595

FIXED VACUUM CAPACITORS, various mfg; used: CY-3-25, 3 pf 25 KV ceramic 3.3"Lx0.8" \$12 JCS-2A-10, 25 pf 10 KV, 2.6"Lx1.5" dia \$15. VC-12-20, 12 pf 20 KV, 6.5"Lx2.8" dia, \$14.

JENNINGS CVDG-1000-15 VACUUM CAPACITOR with 24 VDC motor; drive tuning; 10-1000 PF capacitance, 15 KV peak. Drive has 5/16" dia splined shaft for gear meshing. 5"x5" mount flange, o/a 9"L: 12 lbs sh. USED, \$215.00

JENNINGS SPDT RELAY

JENNINGS SPDT VACUUM COAXIAL RELAY, rated 1 KW @ 300 MHz, 3 KV test. Actuator 6 VDC. Has 4-pin Cannon power & three SC coax connections. 3.5x3.2x4, 2 lbs. #RC47R6153M430, NEW, \$75.

VACUUM TUBES

Huge government sales of electron tubes allows us to offer the following audio, transmitting, and receiving tube types. All are UNUSED MILITARY-BOXED unless noted otherwise:

2A3 Penta-USA (Chinese mfg?) \$14 ea. 10/5120 6B4G Sylvania made version of 6B4G with GA-glass and cathode. Does not test like 6B4G in tube tester but performs as well in most circuits, \$17.50

5691 National, \$6.50 5751 ECG-12AX7, 3.50 5814A ECG -12AX7, 3.25 7025 GE-12AX7, 7.50 6922 ECG = 6DJ8, 3.50 ea; 10/\$28. 100/\$200

2E26 RCA, \$6.00 2K25 Raytheon, \$45. 4CX300A/8167 Eimac \$65 4D32 Raytheon, 35. 5R4WGB Cetron, 4.00 6AJ5 Tungsol, 3.50 6AN8A Sylvania, 3.50 6CB6A RCA, 3.00 6DK6 GE, 3.00 6E37 (England) 3.25 6W8 (Germany) 6.25 6SC7 GE, 4.00 6SC7 GE or RCA, 3.00 2B5 ECG, 3.25 954/955/956, 3.50 1625 Nat-Union 4.50 5676 f/PRC-6-10 3.50 5852 Bendix 6X5 \$4. 5998A Sylvania, 9.95 6012 RCA, 25.00 6146 GE, \$19.95 each; 10 for \$175.00 7189A (Hungary), 6.00 7360 RCA & Syl, \$15 8552 ECG-Syl. 12.6 V version of 6146B, 12.00

"PULL-OUT" SALE

POPULAR TUBES "pulled-out" of equipment-- NOT TESTED/NOT GUARANTEED! But prices CHEAP when purchased in quantities indicated. (Prices for one tube type per quantity): 10 for \$8.00, 100 for \$80.00

1A3 1B5 1U4 2X2 3A5 3D6 3Q4 3Q5 6AC7 6A05 6AK5 6AL5 6AS6 6AU6 6AV6 6B4U 6BA6 6BN6 6HG6/M 6J4 6J5M 6J6 6K7G 6SH7 6SJ7 6SU7 6W4GT 6X5 6Y6GT/GT 12A6 12AT7 12AU7 5963 5965

OTHER "PULL-OUTS": 10 for \$10. 100 for \$75: 5T4 6DQ6 6SL7 5670 5687 5751 5814 6414

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed!

JAN 705A RECTIFIER, 4-pin base; 5"Hx2.3" dia. Used, \$4. GE 5J30 GLASS CW MAGNETRON UHF OSC, 5"Hx2" dia, \$10. GL-6044 oversize 6-pin w/ 4 tabs; 5.3"Hx2.3" di. \$5 CEM THYRATRON, 8.5"Hx3" dia USED, \$4.00

705A 371B/VT166, 8"Hx2.3" d, \$6. 6044 C6

REFLEX KLYSTRON

SPERRY 2K41 REFLEX OSCILLATOR KLYSTRON, 2660-3310 MHz, 20 mw-2.7 W. Heater 6.3 V 1 amp. Beam volts 300-1250 V 15-60 ma. Reflector 0 to -750 V. Has integral tuner & resonant cavity; octal base. 4.5x5.5x2.3, 3#. Unused w/data, \$45.00

VARIAN VA-98H/8901 KLYSTRON, 23.6 - 24.4 GHz 100 mw CW; Eb=500 V @ 40 ma. 2.8"Lx1"Hx1.3"D with five 6"PL wire leads; 1 lb. NEW, \$125.

4-400A SOCKET

ORON TUBE SOCKET for 3-500Z, 4-400A, 4-125A and similar 5-pin PA tubes. Stainless steel 3.6" dia (92 mm) ring has ceramic insulated silver-plated contacts as used in Henry Radio products. \$410-S, NEW \$27.50 ea; 2/\$50.

VACUUM CONTACTORS

JENNINGS SPST VACUUM RELAY-CONTACTOR for 3-1/8" (78 mm) dia hardline coaxial hook-up; rated 25 KW @ 30 MHz; 20 KV peak test; actuator 19-29 VDCI. 4.8x3.8, 7 lbs sh. #RC10A5225A24, unused, \$125.00

JENNINGS HIGH VOLTAGE SPDT RF VACUUM CONTACTOR for high power transmitting and industrial process equipment. Actuated by 26.5 VDC and switch rated 300 amps @ 2.5 KV peak. Insulation and switch peak test voltage: 10 KV 60 Hz. In sealed metal enclosure w/mount flange; connector not available. 15x5.3x9.5, 22 lb sh. #RF20BLDE8121-1, unused, \$225.00

Many other tubes in stock. No complete list available.
WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES
IF "UNUSED" SOLD OUT. UNLESS YOU SPECIFY "UNUSED ONLY"

OLD TUBES as available
 USED, \$2.50; UNUSED, \$4.50
 33 35 36 38 39/44 57
 58 77 78 79 84 85 89
 USED-CHECKED, \$3.50 each:
 19 24/24A 27 37 41 76
 30/VT-27, USED \$4. NEW, \$6
 USED-CHECKED \$6.50: 80 83
 * * * * *

ANTIQUE GLOBE TUBES,
 used-checked, \$7.50 each:

```

227/324      227/327
UX-201A/301A, used, $12.50
- - - - -
NUVISTORS, unused: 7586 $10
7587 $16. 8056 $5. 8058 $18
USED: 6CW4 $6. 7077 $25
- - - - -
"EYE" TUBES, used-checked,
$7.00 ea; if unused, $11 ea
- - - - -
HAMAMATSU R444-T2 photo
multiplier, unused, $40.00

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METAL TUBES.
USED, $2.50; UNUSED $4.50.
6BR6 6CS 6HG 6J5 6J7
6M7 6R7 6S4T 6SD7 6SF5
6SH7 6SJ7 6SK7 6SR7 6SS7

POWER AMP TUBES, used-chkd
unless otherwise noted;
(ett):subject-to-your-test.
2C39A GE-boxed. NFW. $7.95

```

PLUS SHIPPING CHARGES. Minimum charge on approved
open-accounts is \$20.00 plus shipping charges. COD
orders permitted at our discretion, if customer pro-
vides 50% total-order cash deposit. UPS COD fee \$4.75.

10 DAY RETURN POLICY: Customer may return items for
refund of purchase price of the item within 10 days of
receipt of order. Authorization for return required!

DAMAGED MERCHANDISE: Claims must be made within 10
days of receipt. Radio reserves the right to re-
pair, replace, or refund at its discretion on such mer-
chandise. Unauthorized returns & claims beyond the 10
day period are subject to 15% or \$5.00 (whichever is
greater) restocking charge. Returns and claims will
not be accepted after 30 days of receipt of order!

6CWS	6CX8	6CY7	6DA4	6DE1
6DGE	6DHE	6DK7	6DN6	6DN7
6E4A	6E4T	6E4H	6EJ7	6EM7
6E55	6FM7	6FW5	6FY7	6G10
6GH8	6GJ7	6GK5	6GM6	6GM7
6HB7	6JH6	6JH5	6JL8	6KA6
6KZ8	6LM8	6LJ8	6SA7	6SD7
6SF5	6SH7	6SJ7		
	6SR7	6ST7	6SU7	6ZY7
USED.	\$2.50.	UNUSED.	\$4.50.	
6AK6	6AR6	6BE6	6BF5	6BL6
6BX7	6CK7	6CL6	6CY5	6EA6
6SC7	6SG7	6SL7	6SN7	6SE6
6A28 UN	\$8.50	6BN8 UN	\$7	
IF YOU DON'T SEE WHAT YOU				
NEED LISTED, PLEASE WRITE				

1251 123K7 125L7 123N7
125R7 12A77 12AU6 12A7V

USED, \$2.00; UNUSED, \$4.00

BBQ 8810 9K28 10EG7 10OE7
15K78 17D4 17BF11 17Ax4
15Y6 17D6 19A14 19L8
21JV6 21C4 22JM6 27B85
25L6 25A5 25DN6 25B06 25Z5
25Z6 3217 35B5 35C5 35L6
35A5 35L3 35Z4 35Z5 35Y4
50A5 50C5 50G6 50L6 50X6
50HK6 70L7 11724 11726

USED-CHECKED, \$3 ea; 26A6,
26A7 26B6 26B6. 26C6 NEW \$;
-USED-CHKD \$2.50; UNUSED \$4;
9001 9003 9004 9006

2K25 Raytheon, NEW	\$205	\$125
3CX100A5/7289, 6 V fil.,		\$42
4-400A (US-made), stt.		\$850
4CX250R, 6 V fil.,		\$505
4CX300A/8167, NEW,	\$205	\$355
4D32 Raytheon, NEW	\$205	\$355
4X150A, 6 V fil.,		\$160
4X150C, 26 V fil.,	\$25.	\$136
4X150G coaxial, unused,		\$160
6BM6 klystron, unused,		\$775
PL-177WA stt		\$222

CRT TUBE SHIELDS & SOCKETS:		
CRP#	SHIELD	SOCKET
3BP1		\$2.50
3BP1	\$4.00	2.50
5CP1	5.00	3.00

1016 E. EUREKA
P.O. BOX 1105
LIMA, OHIO 45802-1105
Tel: Area Code 419-227-6573

24 HOUR FAX LINE 1-419-227-1313

LEADER
LEADER HEAVY DUTY
SOLENOID #S-8210-
025, 8-position
45° stroke, 28 VDC
Starting torque:
5 lb-in @ 35 watts
(15 lb-in holding) contin-
uous duty. Up to 32, 8 lb-in
starting torque. 700 watts
1/20 duty. 75 size. 2 1/2" dia.
x 1-7/8" with 3/8" dia.
shaft. 4 lbs. Unused, \$4.95

PAB 4PDT TIME DELAY
RELAY, 24 VDC 5 amp
contacts. Adjusts
1.0-4.5 sec with 15-
turn pot, polarity
protect. 1.6x1.3x0.8
12-30-24-44-E1, NEW \$9.95

8PST CONTACTOR with
contacts rated 660
VAC 6 amps; coil 80
VDC. 3x4.5x1.8, 2W.
Schindler #MRC-44E,
NEW, \$14.95

GUARDIAN 1315P-
type 4PDT RELAY
w/terminal board
strip. Contacts 5 A 115 V; 24 VDC
coil. #410-383301, \$3.50

SIGMA CD RELAYS;
OPEN-FRAME, 2 AMP
CONTACTS, 1x2x1 1/2
REMOVED F/EQUIP.
#41F100051L, 12 VDC, \$1.50

MILITARY LISTS

Copies of mil-references:

#TM11-487A DIRECTORY OF OLD
SIGNAL CORPS...RADIO EQUIP-
MENT, Aug 1950, 4 pages
missing, 246 pp; 24. \$22.95

#TM11-310 SCHEMATIC DIA-
GRAMS OF SIGNAL CORP GROUND
RADIO EQUIPMENT, 1943-47;
we selected 32 vehicle and
field radios; 228 pp. \$24.95

#MIL-HDBK-213A, ELECTRON
TUBES, CROSS INDEX and TYPE
IDENTIFICATION, Nov '63;
probably the most and last
comprehensive list of tubes
used by the U.S. military;
303 pages, 3 lbs., \$27.50

#T.O. 08-1-25, VACUUM TUBE
COMPLEMENTS OF SIGNAL/EQUIP-
MENT and TEST DATA, 10/44;
tube line-ups of many vin-
tage military & commercial
radios. Also lists by tube
the radios in which tube is
used. 192 pp, 3 lb., \$19.95

POWER-UP! by Dave
Strom, at long-
last a book on
how-to-make bat-
tery packs from
common batteries
for military ra-
dios which use special bat-
teries! Info on packs for
BC-611, PRC-6, PRC-8-9-10,
PRC-25-77, PRC-9/PRT-4, ra-
diacs, PVS-7, seismic, etc.,
+ hook-up for some vehicu-
lar sets. 95 pp. 2#. \$13.95

PASSPORT TO WORLD
BAND RADIO by In-
ternational Broad-
cast Services,
Ltd. Top selling
SWL guide has SWL
highlights & Buyer's
Guide section. Program
list by time & country plus
Blue Page list by frequen-
cies 3375 thru 25940 MHz,
country, station, and air
time. 416 pages, 4#. \$16.95

STEPPING SWITCH
9-deck 20-posi-
tion 115 VDC
Clare type 20-
6x6x2, 5 lbs.
#A320750 \$10.

CONTROL RELAY, 120 VAC coil
SPST norm-open 10 A & SPST
norm-closed 10 A contacts.
Sealed w/ solder term. 2.3x
1.3x1.8. #7321/6717, \$2.50

DOLLAR DAZE RELAY
PC BOARD, 3-SPDT
12 VDC relays in
1x5/8x1 plastic cases \$1.50

DIGISWITCH

DIGISWITCH ROTARY THUMB
SWITCH ASSEMBLY, ten ganged
switches each with 12 num-
bered positions. Disassem-
ble and use separately or
in groups. 1.9x1.5x2.3,
2#. #9-C-402, used, \$7.95

8 OHM SPEAKER

LS-445 4" SPEAKER
Ruggedized 8 ohm
2 watt PM type;
300-7000 Hz re-
sponse. P/o LS-
166 loudspeaker;
3 lbs. Used \$7.95

MID-RANGE SPEAKER
DRIVER rated 50
watt 11 ohms,
1 KHz to 14 KHz
response. Heavy
duty (4 lbs net)
in sealed metal
casting. Throat size: 1-3/8"
dia X 18 threads per inch.
O/a 3.1"x4.1" dia: USED:
#SP-DR-WR50, \$24.95 \$19.95

AUDIO ANTHOLOGY by
C.G. McProud, edit-
or; articles from
Audio Engineering
magazine. Audio
circuits for 6V6,
6AS7, 211, 300A/B
etc. \$15.95 each:
VOLUME #1, May
1947 - Dec 1949; 124 pages
VOL #2, 1950-1952;
VOL #3, 1952-1954; 96 pages
VOL #4, 1955-1957; 144 pp.

* PRINCIPLES OF ELECTRON *
* TUBES, reprint of Herbert
Reich's, 1941 textbook in-
troduction to vacuum tube
technology. Covers theory
for various audio, radio
& industrial uses start-
ing with basic tube phys-
ics. Soft: 397 pg., \$34.95

75 YEARS OF WEST-
ERN ELECTRIC
TUBE MANUFACTUR-
ING by Bernard
Magers; histori-
cal look at 750+
WE tubes + pics;
133 pp. \$17.95

WESTERN ELECTRIC TUBE CATA-
LOG, 30+ popular types' da-
ta & curves plus obsolete
list. 247 pgs, 3#. \$17.50

Reprints of various audio
amp circuits from vacuum
tube manufacturers' labs:
tube manuals (1959); soft-
bound, 136 pg.
#16.95

AN APPROACH TO AUDIO FRE-
QUENCY AMPLIFIER DESIGN,
(1957) by GE (UK); 17 cir-
cuits. Soft, 126 pg. \$16.95

BOOKS TECHMANUALS

TERMS: All manuals include
maintenance info & schemat-
ic unless noted otherwise.
O.I. = Operating info only
N.S. = No schematic
Repro: Partial reproduc-
tion w/ theory, mainten-
ance info & schematic.

AN/ARC-5 BENCH TEST AND
ALIGNMENT, covers neces-
sary info to align R-23A,
R-148, R-25-26-27 recei-
vers; T-18 thru T-22 xmit-
ters; and MD-7 modulator.
w/schematics; repro. \$8.50

AN-65 5.00
AN-598 4.00
AN/APR-4 repro 12.00
AN/ARC-27 O.I. 5.00
AN/ARC-38-38A repro 20.00
AN/ARC-60 (R-19)
CV-431 repro 10.00
AN/ARC-73 repro 20.00
AN/ARN-12 7.50
AN/ARN-30 repro 10.00
AN/ARN-59 O.I. 4.00
AN/ARN-52 repro 17.00
AN/ART-13 Tx repro 12.00
AN/CRT-3 repro 10.00
AN/GRC-3 12.00
AN/GRC-9 12.00
AN/GRC-10 12.00
AN/GRC-106A repro 40.00
AN/GRC-109 repro 12.00
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AN/GRR-5 7.50
AN/GSC-1 7.50
AN/PRC-6 7.50
AN/PRC-8-9-10 repro 10.00
AN/PRC-9A-10A repro 10.00
AN/PRC-25 repro 20.00
AN/PRC-47 repro 25.00
AN/PRC-74B repro 25.00
AN/PRC-77 repro 20.00
AN/PRC-9/PRT-4 repro 15.00
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AN/TRC-8 repro 15.00
AN/TRC-24 20.00
AN/TRC-75 repro 100.00
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AN/VRC-19 (R394/T278) 8.50
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15-19, T-11-13) 12.00
BC-191 or BC-375 7.50
BC-A5-229 repro 8.50
BC-221 most models 10.00
BC-312-342 repro 10.00
BC-348-J-N-O or K-L-R or
M-O-P repro 10.00
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BC-611/SCR536 repro 12.00
BC-620 repro 12.00
BC-624/825 repro 15.00
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R-388 (5133) repro 12.00

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TRANSOCEANIC) 7.50
R-648/ARR-41 repro 15.00
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R-94/GR repro 12.00
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R-1490/GRR-17 repro 40.00
R-1518/URR-71 repro 22.00
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TS-505 repro 10.00
TS-510/USM-44 repro 12.00
TV-2, -7, or 10A: \$10 ea.
ZW-11 8.50
ZM-30/URM-90 repro 10.00
TEKTRONIX partial repro:
TEK O 57.50 TEK H \$15.00
W 8.50 1A1 \$12.
1A2 \$15. 1A4 \$17.
1A5 \$15. 5A5A \$17.
5A5B \$17. 5A7 \$18.
453 \$25. 475 \$30.
130, 131, or 132 \$7.50 ea

Other Tektronix & Hewlett-
Packard Manuals available.
WRITE for quotation!

ARMED FORCES CROSS INDEX OF
ELECTRON TUBES, 8/52; older
mil-tubes, 120 pp. \$12.50

A USER'S GUIDE TO ARC CORP
RECEIVERS-by M. Tauson;
ARC-5, ARC-type 12 etc, \$4.

LOW & MEDIUM FREQUENCY
SCRAPBOOK, 9th Ed., \$17.95

TECH NOTES FROM A TELEPHONE
ENGINEER, by DB Levels; in-
fo on phone systems, theory
problems, pres. Crostalk,
Noise & Static, Lightning,
alarms, PBX/Key systems
Interesting! 118 pg. \$18.95

ANTIQUE RADIO BOOKS

ANTIQUE RADIOS. Restorations
and Price Guide by D. Johnson.
Good general book with many
clear pictures and info on old
radio theory, repair and cabi-
net clean-up. Also common tube
list, price guide, etc. 2nd
Edition, 8.5x11, 160 p. \$14.95

OLD TIME RADIOS! Restoration and Repair
by Joseph J. Carr. A little history & pictures
but a lot of old radio theory, general cir-
cuits, and repair-troubleshoot info using
test equipment; 256 pages, 2 lbs. \$17.95

GUIDE TO OLD RADIOS: POINTERS, PICTURES,
AND PRICES by the Johnsons. Descriptions,
price ranges, pictures of 3500+ radios of
1920'-30's; some broadcast history, speakers
and cabinets. 8 color pages; 182 pp. \$16.95

COMMUNICATIONS RECEIVERS, 3rd
Edition by R. Moore; expanded
with more info and pictures
of receivers from the 1932 to
1981 period. 175 pp; 3#. \$19.95

TRANSMITTERS-EXCITERS & POWER
AMPLIFIERS 1930-1980 by Ray
Moore (released 4-1-96); com-
panion to his popular Communication Recei-
vers book! 470 pp; 147 pp. 8.5x11, \$21.95

70 YEARS OF RADIO TUBES & VALVES by John
Stokes; history of American and European
tubes from 1880 to 1950. Many pictures plus
reprints of tube ads; 8.5x11, 247 pp. \$24.95

AMATEUR BOOKS

1996 RADIO AMA-
TEUR'S HANDBOOK
w/software, \$38
OPERATING MANUAL, 4th Ed., \$18.00
FIRST STEPS IN RADIO. \$6.00
ANTENNA BOOK, \$30. LOGBOOK, \$3.50
ANTENNA COMPENDIUM 1/QST, Vol. 1. \$10.
Volumes II, \$14. III, \$14. IV, \$20.
ANTENNA IMPEDANCE MATCHING. \$20.00
UHF / MICROWAVE EXPERIMENTER, \$20.00
WFJ's NOTEBOOKS: ANTENNA \$10.00
DESIGN, \$10.00; ORP, \$10.00
200 METERS-DOWN. 58. HINTS-KINKS \$10.
ARRL ELECTRONICS DATA BOOK, \$15.00
UHF/MICROWAVE PROJECTS MANUAL. \$20.
SATELLITE EXPERIMENTERS HANDBOOK, \$20
SOLID-STATE DESIGN, \$15.00

VINTAGE RADIO

VINTAGE RADIO 1987-1929. * WRITE *

A FLICK OF THE SWITCH 1930-1950, se-
quel to McMahon's Vintage Radio;
pictorial of radio & TV; soft. \$11.95

MOST-OFTEN-NEEDED 1926-1938 RADIO
DIAGRAMS, 600+ old schematics \$15.95

THE COLLECTOR'S GUIDE
TO ANTIQUE RADIOS by
M. & S. Bunist; another
guide on 5000 radios
(1920-1959) with 400
quality color pictures!
8x11.5, 175 pp. \$18.95

COLLECTOR'S GUIDE TO
TRANSISTOR RADIOS info on 2000 radios
200 photos; 5.5"x8.5", 256 pg. \$15.95

SONOBUOY RECEIVER

R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules: 26 MHz 1st IF, 5 MHz 2nd IF, Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Requires

external control and 18 VDC, 7.5x2.5 x10, 9 lbs. Used, \$299.50 \$24.95, SCHEMATIC, \$4 w/set. MANUAL, partial repro, \$15 w/set.

1 KW HF RADIO SET

AM/TRC-75 1 KW HF RADIO in CY-2600 case for vehicle mount; 2-29.999 MHz AM-SSB-tone

400 W, 1 KW nominal PEP. Collins made set consists of R-761 receiver and T-730 transmitter listed below. C-3341 control (p 16), UC-749 antenna coupler, CV-786 converter-oscillator, AM-2306 amplifier, CV-786 converter-oscillator, RF-111 load coil (p 4) plus built-in wattmeter. We will also include manual copy and PP-2352 power inverter (p 10) which provides 115 V 400 Hz 3 O for the set from 28 VDC 110 amp input. 20x48.5x30.5, 375 lbs sh wt.

Used-complete, not tested, \$1399.00 \$750.00 AM/TRC-75 without manual or PP-2352, \$650.00

T-730 1 KW POWER AMP

T-730/TRC-75 TRANSMITTER, functions as 1 KW PEP (400 W AM-SSB) 2-29.999 MHz linear power amp when used with R-761/ARC-58 receiver which supplied 200 MW PEP input drive. Uses three 4CX250 tubes in P-A; tuned by servo amplifiers and motors. Requires 115 VAC 400 Hz 3 O for power supply with outputs 2000 VDC 50 ma, 400 VDC, 2 VDC, 6.3 VAC, -40 to -80 VDC and 115 V 400 Hz 1 O for servo motors. With tubes 2/6CL6, 5896, 3/4CX250. C-3141 control required for channel selection. 7.8x10.3x24, 95 lbs. Used, \$250. \$275. SCHEMATIC for T-605, \$6 with set purchase.

R-761/ARC-58 RECEIVER, companion receiver and exciter to T-730. Requires 115 VAC 400 Hz input. 7.6x10.3x23.5 55 lbs sh. Used, \$290. \$175. SCHEMATIC, \$6 w/set purchase. C-3141 CONTROL for frequency select (pg 16), used \$29.95 CONNECTORS for above, \$5 each w/set purchase

30-1000 MHZ RECEIVER

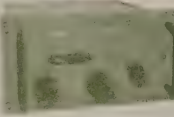
R-484/APR-14 AIRBORNE PANORAMIC SEARCH RECEIVER

Covers 30-1000 MHz AM-FM in bands 30-210, 210-400 and 1000-1000 MHz; has 3" dia CRT for panoramic display of these signals. RF bandpass 8 MHz @ 3 dB points. Sensitivity: 11 uv max (30-100 MHz), 13 uv (100-300), 16 uv (300-1000). Spurious response 45 dB down; image reject 60 dB. IF attenuator 0-74 dB in 6 dB steps. CRT calibrate +3MHz center freq. 600 ohms audio; 46/7-9-pin mini & octal tubes plus 3J1, 6F4, and 5768. Req 115 VAC 380-1000 Hz and 24 VDC 20 W. 8x15.5x20, 90 lbs. USED-REPAIRABLE \$250 \$210. MANUAL repro, \$15

AIRCRAFT GYROS

No specific data: LEAR 3-AXIS RATE SENSOR w/ three #2157HB rate gyros; 3.4x6.4x6, 98. Lear #2162C, \$250. SPERRY ROLL & PITCH CONTROL GYRO, model K-6; Rotating center 5.5"x4" dia; removable top cover. 6.4"x8" dia; 6 lbs. #K6-8510, \$75.

100 TO 225 MHZ AMP



Requires +750 V, 200-350 V screen, and 6-3 V filament; with schematic. 12x6x14, 24 lbs. Used, \$89.50 \$59.50;

AM-912/GRC AMPLIFIER-MULTIPLIER plug-in for T-302/TRC transmitter; covers 100-225 MHz FM @ 100+ watts using 4X150A tube. Controls Grid & Plate Tune and Amp Output Coupling.

Range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V. 7.5x6.5x9.5; 15 lbs. Used, \$35. AM-1179/GRC, 50 to 100 MHz, used, \$39.50

AM-914/TRC AMPLIFIER-CONVERTER, plug-in for R-417 receiver in 225-400 MHz range. Continuous tuning of RF and oscillator; 30 MHz IF. Modify and use as down-converter! With tubes 5670, 4/6J4. Requires 150 VDC & 6.3 V. 7.5x6.5x9.5; 15 lbs. Used, \$35. AM-1179/GRC, 50 to 100 MHz, used, \$39.50

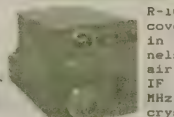
AM-1177/TRC, 400 to 600 MHz, used, \$44.50 AM-3203A/TRC, 1.35 to 1.9875 GHz, \$49.50

UGC-129 TELETYPEWRITER



AM/UGC-129 TACTICAL TELETYPEWRITER with MU-734/UGC MAGNETIC TAPE UNIT microprocessor controlled full duplex teletypewriter has 16K RAM and QUERY keyboard with Edit, Mode Select, and Memory. Printer speed 120 CPS; 69-80 character line, single or double line feed. 64-character ASCII subset; ITAS or Baudot codes. 8 baud rates 4.5 to 2400. Uses paper rolls 216 mm W x 127 mm dia friction feed, single or multi-copy. MU-734 TAPE UNIT stores 8-bit data for UGC-129 on standard cassette tapes; 300K char./tape. Requires 115/230 VAC 47-400 Hz; connectors not available. UGC-129: 9.5x15x18.5, 52#. MU-734: 7.8x8x13.5, 18#. USED-REPAIRABLE, \$75.00/set UGC-129 only, \$49.50; MANUAL copy, \$35 w/set

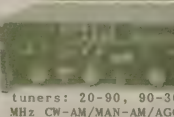
ARN-30D VHF RECEIVER



R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 MHz, 2nd 1.7 MHz. Electrically turned crystal turrets with frequency displayed on side panel. Adjustable squelch; 300 ohm audio output. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5895, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10#. Used, \$29.95

C-3436/ARN-30D FREQUENCY CONTROL, used, \$15. Operator MANUAL f/ ARN-30D, part-repro \$7.50

20-1000 MHZ PANORAMIC



WATKINS-JOHNSON WJ-8737 PANORAMIC RECEIVER (RU) w/ DISPLAY UNIT (DU) receiver has four solid-state band tuners: 20-90, 90-300, 235-500, and 1000-1000 MHz CW-AM/AN/AGC-FM-Pulse. IF bandwidth: 4/20/100 KHz (other BW available); 21.4 MHz IF. RU controls: Carrier Operated Relay COR/ Squelch, Video Gain, RF/IF Gain, ON/OFF/Audio Gain, Video Out, Phone Out, Fine Tune. Display 1"Hx3"W CRT shows upto 3 MHz spectrum. Sweep width 20 KHz/3 MHz. Controls for VERT/HORIZ, Focus, Intensity, Marker ON-OFF, LIN/LOG, Center Freq. Gain. DU also has 6-digit freq-counter (LCD or LED); time base provides DAFC for RU. W/manual copy for similar WJ-9026RU/DU. 5x19x26, 65 lbs. Used-operational, LESS CABLES, may not be to specs. #WJ-8737RU/DU-LED with LED display, \$1525.00

CEI VHF-UHF RECEIVERS

CEI/WATKINS-JOHNSON VHF and UHF RECEIVERS, compact rackmount VHF

sets cover 30-300 MHz AM-FM-CW in bands 30-90 and 90-300 MHz while UHF sets cover 235-1000 MHz in bands 235-500 and 490-1000 MHz. All have Tuning and Signal Strength meters. RF-VIDEO-AUDIO GAIN controls, and BNC. Nu-vistor/transistor electronics. 3.5x19x17.5, 30# sh. Used-operational, but not to specs?

R-1279C-VHF, 20 or 300 KHz IF width, \$295. 903B-VHF, 50 or 300 KHz IF width, \$250. 306A-VHF, 20 / 300 KHz IF, more recent \$365. WJ-8736, 20-1000 MHz solid-state in 4 bands; 3-position IF select (CALL), \$895.

HT-10 TUNER, 0.5 to 10 MHz for use with external 21.4 MHz IF unit. Input 0/10/-20/-30/-40 db. Rear BNC input RF, AGC; outputs. 21.4 MHz SM & IF, L.O. & Analog Tune Volts. 3.4x19x19, 25 lbs sh. USED, \$150.00

DRO-333 COUNTER, 6-digit rackmount unit has ranges 1-30, 20-300, 200-500 (21.4 MHz IF) & 490-1000 MHz (60 MHz IF). Past-Silo digital AFC, Tuning Meter & BCD output. Requires 115 VAC 60 Hz; 1.6x19x18, 15 lbs. USED \$175 WJ-9518AE-9 FDM DEMODULATOR, 5 demod inputs + 1-external; UPK-LWR display for each. No further info. 5.3x19x21, 75 lbs. USED, \$595

ARC-60 ITEMS

R-508 AIRCRAFT RECEIVER, 118 to 148 MHz AM continuously tunable, but does not have dial; tuned remotely using control box with MC-215 flex spline (not available). 15 MHz IF; has binding post & BNC antenna connections on front. Tubes 12A6, 14A7, 14FT, 2/14R7, 9002, 3/9003. Same as R-19; part of AN/ARC-60 and ARC-Type 12. Requires 250 VDC 60 ma & 28 VDC. 6.5x15x18, 15#. USED, \$20.

D-10 28 VDC DYNAMOMETER f/ R-11/R-508, USED \$7 T-363 (T-13A) XMITER, 4 channel 132-148 MHz range (no xtals); 4/5763. GOV'T-RECOND, \$27

CV-431/AR FREQUENCY TRANSVERTER, p/o ARC-60 set; receives RF in 228-256 MHz range and converts them to 118-148 MHz for reception on R-19 receiver. Also transmits over 228-256 MHz AM on 8 crystal channels; 1/2 watt output. (Crystals not included) With tubes 3/5763, 6201, 6360, 6399. Requires 28 VDC and +250 V 4.4x4.8x11.5, 9 lbs. Unused, \$22. MT-1140 MOUNT for R-19 or CV-431, \$3.50 ea

O-423/AR OSCILLATOR-RELAY provides 1 KHz tone for "whistle-through" tuning of ARC-60. Has level adjust, two BNC connections, five 28 VDC SPDT ceramic relays. 3.9x5x2, 3#. \$9.95

HF POWER AMP

AM-4239/ARC-112 POWER AMPLIFIER part of 2-29.999 SSB aircraft radio; 400 W SSB output. Power supply and PA similar to Collins 618Ts (page 4). Uses two 4CX250FG tubes driven by two 6CL6's from driver module. Has two TNC & one BNC RF connection, running time meter and aluminum cover. Requires 115 V 400 Hz 3 O to produce +28 V, +130 V, +250 V. 8x9x17, 34#. Used w/schematics, \$150

AM-4573/ARC-123 HF POWER AMPLIFIER, used with 2-29.999 MHz SSB aircraft radio set to produce 400 W SSB PEP using two RCA 4633 tubes. TNC RF input & V output connections plus Running Time Meter. Also ten Jennings RJ1A 26 VDC vacuum relays (see page 28) and gold-plated feed-thru caps. Requires 115 V 400 Hz 3 O; 7.6x5x15.3, 24 lbs sh. Used with schematic, \$250.00

1.5-20 MHZ TRANSMITTER



T-195/GRC-19 TRANSMITTER 1.5-20 Mhz AM-CW-PSK in ten bands manual or auto tune. Power output 100 W (1.5-12), 90 W (12-16), 80 W (16-20 Mhz). Uses two 4X150D tubes in power amp & 20 other tubes. Requires 22-30 VDC 42 amps input (9 amps "standby") for dynamo supply. With voltage monitor meter, but LESS VU-METER; companion to R-392 receiver. 11.5x22x14.5, 135 lbs. USED-REPAIRABLE, \$185.

MANUAL for T-195, partial repro, \$20.00
POWER CONNECTOR for T-195, \$7.50

CLASS C POWER AMP



CLASS C POWER AMPLIFIER removed from T-195/GRC 100 watt transmitter; uses 4X150D tube to cover 1.5 to 20 Mhz in ten bands using variable and fixed capacitors, switches, and 400 Hz servo motor. Chassis also has discriminator and servo amp. Requires -1000 VDC modulated, -250 VDC, -45 VDC & 115 V 400 Hz for motor. W/tubes 4X150D, 5751, 6A05, 5763 and schematic. 9.5x8.5x6, 15#. PA/T195 used, \$45. \$27.



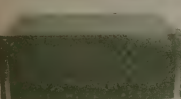
MODULATOR for T-195 provided audio to modulate PA & supply sidetone; 300 & 3500 Hz band-pass. W/tubes 2/12AT7, 5726, 5814. LESS 2/4X150D. 8.5x6 x4.3. 7#.

#T-195/MOD, above LESS 4X150's & sockets \$10

URG-2 MODULES

GRR-18/GRT-17 RECEIVER-EXCITER MODULES & RACKS from "complete" group pictured. Black box modules fit into rack slot. "USED-NOT TESTED".

TS-2923/GRR-18 (509H3) RECEIVER TEST MODULE, 5 lbs. \$39.50
PP-4992/ARC-132 (652J4) POWER SUPPLY used in Rx & EXC racks; 115 V 47-450 Hz in. \$60.
CV-2649/GRT-17 (888B-1) AMPLIFIER CONVERTER, provides output signals for exciter from 250 KHz IF input; less cover, 8 lbs. \$99.50
CH-644/GRT-17 EXCITER RACK ONLY for URG-11 exciter modules, 10.4x18.8x22.6, 18#. \$65.
CH-645/GRR-18 RECEIVER RACK, 18 lbs. \$64.50

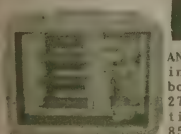


OK-145/TSC-60 CONTROL MONITOR, consists of C-8364 monitor rack with speaker, C-8362 and C-8363 frequency selector controls for two receivers and two exciters. With rear connectors. Requires 115 V 50-60 or 400 Hz; 7x19x14.5, 45 lbs sh. Used, \$175.00

ARC-164 PARTS

MT-6147/ARC-164 ADAPTER MOUNT, retrofit ARC-164 (or =) into older ARC-34 mount. Rear rack connector for system harness; front plug for ARC-164 plus N coax conn. 1.5x13.8x11, 11#. USED \$45 \$25

RX-70 Mhz-TX /MAIN RECEIVER MODULE for RT-1288A/ARC-164(V), 1990 date codes; 2 lbs sh. #5821-013-021-1368, NEW, \$200. \$125



ANT-SIMULATOR

ANTENNA SIMULATOR by Boeing, a portable RF load box using two 77 and four 27 ohm 50 watt non-inductive resistors, one CRL 859 60 PF 20 KV doorknob capacitor, five CM-55 mica cap, and silver-plated coils. Has 5" dia 115 VAC 60 Hz cooling fan; transit case has removable covers. 11.5x16x13, 33 lbs sh. #ANT-SIM, used, \$40.

TELE COSTER I

TELE COSTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls.

Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flashes 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info \$8.



TRANSISTORIZED GUARD RECEIVER f/ modified RT-178/ARC-27; one channel in 236-248 Mhz range. IF's 25.1/3.45 Mhz; has detector, noise limiter, AVC, 4/2N/745 transistors, and 25.1 Mhz filter. 8x4x4, 6 lbs sh. #5821-953-9695 used \$14.95

PRC-25 MODULE TESTER

AN/GRM-55 TEST SET,

use to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, NK-4622 probe, CX-8593 cable assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8 10 lbs sh. GOVT-RECONDITIONED, \$77.00

7' WEATHER BALLOON

ML-541A WEATHER BALLOON, 7 feet diameter streamline sounding type designed for rapid 1700 ft/minute ascent to carry meteorological equipment to upper atmosphere. 2500 gram free lift; bursting altitude 75000 ft. (Specs based upon hydrogen fill. Use of helium or air alters performance.) Two 4.5" L x1" dia necks; neoprene, 2/86 date code. 5 lbs sh. UNUSED, \$17.95 each; 2 for \$32.00



DUMMY LOAD

DA-189/GRC DUMMY LOAD, portable 50 ohm unit operates over 600 to 1850 Mhz range @ 40 watts maximum. Output indicated on 3.5" dia meter; "C" input connection. 4x 4x10, 9 lbs sh. Unused, \$75.00

900-1100 MHZ CAVITY

TRANSMITTER TRIPLER / PRESELECTION CAVITY MODULE from TACAN system in 900-1100 Mhz range. Consists of preselector and four silver-plated cavities each w/ 2C39A tube. Module and cavities originally gang-tuned using ball-chain drive (not available)

10x7.5x2, 7 lbs sh. #4-CAV-93, used, \$49.50



GRAB BOX ASSORTMENT of used and unused manufacturers and government surplus electronic parts such as assemblies, motors, coils, transformers, chokes, circuit boards, capacitors, resistors, and other usable items. Packed in 50 lbs cartons: \$12.00 ea or 2 cartons for \$21.00

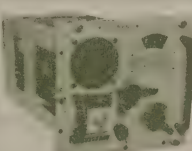
Shipped via UPS with freight charges varying from \$8 to \$26 per box. Allow for charges!

GRAB BOX is good "filler" to take advantage of motor freight 150# minimum weight rates!

602-999 MHZ OSCILLATOR

AM-1957 AMPLIFIER-OSCILLATOR,

601.5 to 999.5 Mhz plug-in for T-893/GRC-50 transmitter. Utilizes three 7289 tubes as 651-1049.5 Mhz oscillator, -50 Mhz mixer and 15 watt power amp. Directional coupler detects Reflected Power and provides monitor output for external meter circuit. RF passes through duplexer having identical receive/transmit sections each with two cavities. (Receive signal route to separate AM-1955 receive module.) Transmit RF then moves to second directional coupler which detects Reflected Power also with output for external meter. Wavemeter samples output RF for frequency measurement using calibration chart. Cathode current of each 7289 regulated by external 250 VDC (not supplied). Requires 115 VAC 60 Hz, 645 VDC, 650 VDC, 800 VDC, 5.7 VAC 5.5 VAC. Schematic and info included. 8.9x11x16, 36 lbs sh. Used-clean, \$153. \$99.50



AM-1955B/GRC AMPLIFIER CONVERTER used with R-1148A/GRC-50 receiver for 600-1000 Mhz band; 60 Mhz IF. Uses 4037A/2C40A tube as oscillator; also 5654, 2/5842. With wavemeter and calibration book. Requires 150 VDC and 6.3 V. 15x9.5x8, 30 lbs sh. Used, \$45.

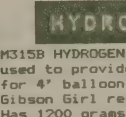
SPEECH AMPLIFIER

AM-2306/TRC-75 AUDIO AMPLIFIER ASSEMBLY with AM-476C audio amp which processes 150 ohm receive and 5 ohm mic inputs into 150 ohm phone audio during Rx-Tx operations. AM-2290 amp provides 2 watt 30 ohm; 600 ohm speaker output. Requires 28 VDC input; 4.4x4.5x10, 6 lbs. Used w/schematics & mating plug, \$21.95



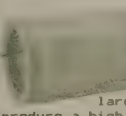
TRC-75 TEST SET

TS-1324/TRC-75 TEST SET, designed to calibrate and check C-2848/TRC-75 coupler control (Collins 309A-2E) used with CU-749 (180R6) antenna couplers. Amber light = OK, Red light = Fail. Also tests SWR performance of TRC-75 system and voltages of T-730 xmitter. Has 2.5" dia test meter, test cables. 13.5x12x7.5, 20 lbs sh. USED, \$99.50



HYDROGEN GENERATOR

H315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/c CRT-3 Gibson Girl rescue radio. Has 1200 grams of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) The H315B cans are dented; suitable only for the recovery of calcium hydride. 11.6"x4.3" dia, 4 lbs sh. Unused-dented, \$6.95 ea; 2/\$12.00 INFLATION TUBES for H315B, \$3.00 ea



PIEZO CRYSTAL

PIEZO CRYSTAL CYLINDER for use in pressure or sound experiments. These unusually large 3.4" dia X 5" long crystals produce a high potential when subjected to pressure change caused by weight and temperature change. When audio frequency is applied crystal responds from 1.5 KHz with a peak at 12 KHz (3500 ohm impedance) and a peak at 17 KHz (230 ohms). Dips and peaks occur throughout the audio and ultrasonic range. Cylinder wall 0.4" thick; can be sawed with difficulty into smaller sections. Originally used in sonar system; may have minor chips. 7 lbs sh. #P-XTAL, used, \$27.00

PUSH-TO-TEST

PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

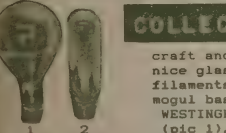
KORRY 260 PUSH-TO-TEST INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1 1/2" x 2 1/2" x 2 1/2" NEW.

KORRY 260 indicators with rocket launch-related inscriptions: 400 CPS DRIFT, 11 C HEATERS THERMOSTAT, HYDRAULIC ACTUATOR TEST PUMP, HEATERS 1-2-3, COOLANT VENT VALVE, 1220 PSI SPHERES PRESSURE SW, STEV HTR COMMAND, SET PRESSURE SWITCH, LOCK VENT VALVE OPEN, CENTER, 280 VA. Price: \$.75 each, 4 for \$2. Inscribed "28 VDC", \$1 ea.

LAMP HOLDERS for 327 lps; fit 1/2" hole. Flat WHITE numbered lenses; specify: "4,5,6,7,9" or YELLOW "MAX". #0934, \$.55 ea #FLW-327 PILOT LIGHT w/327 lamp; white lens. Used \$1.35

MINI-DIMMER LIGHT for 327-size bulb; fits 3/8" dia hole, o/a 1.4" Lx0.6" dia.

#0673, green jewel NEW \$.85 TINY 28 V NEON INDICATORS, 1-3/8" long X 3/8" dia; NEW #3495 clear lens w/"B" 3/81 #3496 " " w/"7" 3/81



MALCO 375W BULB (pic 1), low amber-pink filament light from 115 VAC but lots of heat! 7.5" x 3.5" dia, \$5.00 EDISMAN PROJECTION (2) 6-8 A 200 w; 5.3x1.4" dia. \$3.00 T-8 PROJECTION BULBS (like pic 2), 200 W 3.4" x 1" dia: GE #PH/200T8SC, \$2. RADIANT mfg #R200/TCC8, \$2.00

MINIATURE LAMPS

STK #	VOLTS	AMPS	BASE	BULB	EA	10 PK
313	28	0.17	min bay	T3-1/4	.45	\$3.50
1845	28	0.22	min bay	T3-1/4	.35	\$2.50
1815	14	0.20	min bay	T3-1/4	.45	\$3.50
67	13.5	0.6	SC bay	G-6	.35	\$2.50
511	2	0.25	min screw	G-6	.20	\$1.00
331	1.35	0.06	min flange	TL-1/4	.75	\$6.50
1021 Lantern	4.5	1.25	RP11 SC pref		1.00	\$7.50
NE-47	105-115	VAC	cand bay	T4-1/2	1.50	\$12.50
NE-51	115	0.25	min bay	T3-1/4	.75	\$6.50
24-68M	24	0.68	DC bay	B-6	.35	\$2.50

MARINE TYPE 600 WATT 28 VOLT GE #600 PA 56/1 SCREW TERMINALS PRICE: \$6.00 EA. WRITE FOR 100 LOT PRICE.



X 2"D; fits 1"x0.8" hole. #03GEEG3H. \$1.75

FIL-COIL 200 AMP 250 VAC/600 VDC 0-60 Hz; 2.8x8x3.8, 6 lbs. #FCSR-608, unused, \$12.

RTE/AERVOX 2 X 10 AMP 120/240 V 50-60 Hz; 1.5x3.5x2, 2 lbs sh. #A10DMS2C11, NEW, \$2.50

CORCON P2506, 6 amp 115/230 VAC 47-63 Hz; 3.5"L x 1.5"H x 2"W, 1 lb sh. NEW, \$2.00



SUB-MINIATURE NEON PILOT LIGHT with 5/16" dia clear jewel. Base is receptacle for three 1/16" pins in triangle pattern. Mounts in 3/8" dia hole. O/a 1.4" L; includes neon bulb. #PIL007, \$.35 ea; 4/\$1.00

MINI PILOT LIGHT with #382 14 V T1-3/4 bulb; 7/16" dia "cap" lens fits in 3/8" dia hole, 1.3"L. Specify del WHITE. #PIL-382, used, \$.50

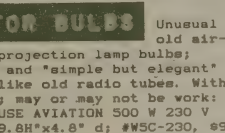
PILOT LIGHT for single contact mini-bayonet bulb. Flat clear lens 1/2" dia. O/a 2.3" long for 3/4" dia hole. #PIL-FLCR, \$.60 ea

DIALCO PILOT LIGHT for single contact mini-bayonet bulb; 1/2" dia raised green jewel. O/a 2.3"L; fits 1/2" dia hole. #1781, \$1.00

DIMMER LIGHT w/NE-51 bulb; 1/2" dia clear jewel. Fits 5/8" dia hole; o/a 3" L. #PIL-C433, used, \$.75 ea

LARGE PILOT LIGHT for double contact bayonet bulb 1/4" dia smooth amber jewel. O/a 2.8"L; fits 1" dia hole #1632-ND4, unused, \$1.00

PRESS-TO-TEST INDICATOR w/ dimmer; mini bayonet base. 0.75" dia flat amber jewel; O/a 2.3"L, fits 0.6" dia hole. #AN-3157-2, used, \$2.



Unusual old air-craft and projection lamp bulbs; nice glass and "simple but elegant" filaments like old radio tubes. With mogul base, may or may not be work: WESTINGHOUSE AVIATION 500 W 230 V (pic 1), 9.8"Hx4.8" d; #WSC-200, \$9.

60 OH INDUCTOR

VARIABLE RIBBON INDUCTOR, p/o T-195 2-20 MHz, 100 W xmit-ter. Two 4.6"x2.8" dia drums (one slug core) with 3/16" W silvered-ribbon; 30 turn 4" L coil for 160 uH. 26 VDC motor rotates drums transferring ribbon from one to the other. O/a 8.3x5.8x6.3; 10 lbs sh. #L1101/T-195, USED, \$20-50 \$22.50

INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8"x2" dia. NEW, 123-177 mH, #NV243, \$1.50 600 mH, #404-3-2, \$1.50

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x1 1/2 dia #403-4 \$1

ROLLER INDUCTOR, 5 uH; 19-turns 3/16" dia silver-tered wire; 2.6"Lx1.6" dia coil w/1/2" notch coupling; o/a 2.5x5x2.5. 2# #L4/618T, used, \$12-00 \$10.

RF MASTER OSCILLATOR COILS #T53/6032, p/o T-22/ARC-5 7-9 MHz xmitter; \$4.00 #L101/ART-13, ceramic 2"H x 1.6" dia base. \$4.00



#L6/RF111 COIL, 30 uH; 13 turns #8 silver-plated wire in 8" dia coil. Form notched for 4 more turns; fiberglass ends. O/a 8x7.5x6.5, 4 lbs sh wt. Used. \$12-95 \$9.95 #L5/RF111 COIL, 15 uH; 12 turns #8 wire in 3.75" dia coil. 7.3x6.5x4.5, 4 lbs sh wt. Used. \$11-00 \$8.95

TUNER KNOBS



#TK-2392 TUNER KNOB, 2.3" dia plastic w/brushed aluminum insert and set screws; has nice "feel." \$2.50

#TK-LF-HF TUNER KNOB, aluminum 2" dia w/5/8"L crank; fits 1/4" dia shaft. Label reads "Lock Tuning LF-HF"; p/o SCR-506. Unused, \$4.00 ARMY SPIN KNOB, retractable crank f/beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, NEW, \$5.

LARGE FLUTED KNOB for 1/4" dia shaft O/a 2-3/8" dia. #KBN-238-25, \$1.50 #KBN-LCP, for 3/8" shaft, \$1.25; 2 for \$2.00

EQUIPMENT HANDLES 4.9"Lx1.8"H x0.6"W black aluminum handles tapped for #8-32 screws; 1 lb sh. #BLK-HAND-95, NEW, \$4/pair

1.3" dia FLUTED KNOB w/1.8" dia skirt; brass insert for 3/8" dia shaft. #KNO4, \$.70 #KNO3, as above except 1.6" dia w/ 2" dia skirt, \$.90

DUAL CONTROL KNOB as used on H-P and TEK scopes; 1-3/8" dia skirted black base for 1/4" dia shaft with 3/4" dia red top knob for 1/8" dia shaft. #KN-DC-HP, used, \$1.

2-3/8" dia FLUTED KNOB with 3" dia SKIRT for 1/4" dia shaft. #KBN-SIJ3, NEW, \$5.

Rounded bar style knob, 1-1/8" long x 2" across x 1 1/16" H. Brass insert f/ 3" dia sh. #KNART13 2/41

MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #B5570 1 1/2" \$2

HALLICRAFTERS with big 1 1/2" dia; arrow & grip bar. #B81044 new \$1.50

ALCO KNOBS, modern plastic knobs with brushed aluminum inset fit 1/4" dia shaft. #AL-KN8P, 3/4" dia x 1 1/2"H; pointer for slot shaft #.45 #ALKN6, 5/8" dia x 3/8"H for 3/16" dia shaft, 4/\$1.

GRC KNOBS f/Army radio sets fit beveled top screw shaft OD green; 7/8" dia skirts: #KB-GRC-10, 1"L grip, \$1.25 #KB-GRC-14, 1.4" grip \$1.50

METAL EQUIPMENT HANDLES for mounting to panel fronts. 5/16" stock. 1.5"H x 4.25"W on center; with screws. #PNL-HAND, used, \$2/pair

POINTER KNOB for 1/4" dia shaft; 1.8"Lx1"Hx0.8"W. #KNBN-026-90, 3/\$1.00

KALRAD KNOB SET, five 1/2" dia plastic knobs with 5/8" dia skirt, chrome insert, & set screws; #KALSK, NEW \$1.20/pk

DARK BROWN fluted plastic 1" dia X 0.5"H f/ 1930's & 40's radios. #KN-DB1, 3/\$1.

SP-600XK RECEIVER KNOBS, 1.6" dia x 2.3" dia skirt; Specify: AUDIO, SELECTIVITY, RF GAIN or BEAT OSC. 55 each

HORN

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/screw-driver volume adjust. Steel construction; recess mount. Front size 4x4x1.25; 1.25" panel depth. 3 lbs sh. #KS-12037L2, NEW, \$5.95

ROLLER INDUCTORS

PLATE ROLLER INDUCTOR, 26 turns #16 silver-plated wire 3.7"L x 2" dia coil; 14.5 uH max. 115 VAC 400 Hz motor and 20K ohm multi-turn pot; will run on 28 V 60 Hz. Can be adapted to direct-drive. O/a 6.8x4x5, 3 lbs. #L13/ARC-58, used, \$27.95

ROLLER INDUCTORS

ROLLER INDUCTOR rated 0.1 to 10 uH; 18 turns #16 silver-tinned wire forms 2" dia coil. Fiberglass ends; shaft 3/4"Lx1/4" dia. O/a 3.5x4.5x2.6. 3#. #021-7029, NEW \$28

ROLLER INDUCTORS

ROLLER INDUCTOR KITS, includes 4.4"L x 1.5" dia ceramic coil with 40 turns #14 silvered-wire, roller wheel, guide shaft & springs. 3/8" dia shafts have removable pinned gear. End support plates not supplied; 3#. #L22-PRC-47, 22 uH, \$16. #L35-PRC47, 35 uH w/part slug core, \$15.50 #L40-PRC47, 40 uH w/full slug core, \$15.

ROLLER INDUCTORS

MO & PA TANK COILS from TU-10 10 to 12.5 KC tuning units as used with BC-191/375 mitters. Ceramic coil 5"Lx2" dia on 7"x3.1" mount bracket; \$12 wire, 2 #. #2684/TU10, MO tank; 2.4 uH. Used, \$4.25 #2697/TU10, PA tank; 1.35 uH. Used, \$4.00

ROLLER INDUCTORS

VARIABLE RIBBON INDUCTOR with motor drive; p/o Collins 180L antenna tuner. Two 5.4"L x 3.37" dia coils with 288" of drawn silver ribbon (0.125"W x 0.01" Th) wound between; approx 28 uH. Ribbon transferred from coil to coil by 28 VDC motor. O/a 9.3x5.8x5.8, 10 lbs. #L401/180L, used, \$34-95 \$28.95

VAR CAPACITORS

G-SERIES TRANS-MITTING CAPACITORS, used-good or unused as available.

type, 2.3"H x 2.6" dia; lbs. \$12.50 \$7.50 ea

KV	MFD	KV	MFD
1.0	0.04	6.0	0.0002
1.5	0.08	6.0	0.00024

2. 3.5"Hx3" dia. \$18.50 \$12
2.0 0.03 20.0 0.0002
2.0 0.03 20.0 0.00005

G3, 4"Hx5" dia, \$27.50 \$18
2.5 0.15 20.0 0.00015

G4, 5.5"Hx5" dia, 8 lbs, \$32
1.0 0.084

1 KV 0.001 MFD GLASS CAPACITOR, 6-32 thread on ends; 1/2" Lx1.5" dia, 2#. NEW \$24.

AMITTER COILS

for BC-610
HF xmitter w/
variometer:
5.5"Lx4.5"
dia; 3# sh.
NEW \$10 ea.
WC-447B 8-11W
#C448B 11-14W

PLATE TANK COIL FOR 2 KW power amp; 12-15 KHz range, 4-turns 3/8" dia silver-plated tubing in 6.5"Lx5.4" dia coil plus variometer & 5 banana jacks. #3C1087-12, \$12.

VACUUM RELAYS

WINDINGS or equal:
1. C coils, Re-
from equip;
26. SPDT 265
12 KV pk 15 A
DC. Max operate
18 ms; release 9 ms
threaded 3/4" base; o/a
1.1" dia. 1# \$51.

REE-6B, SPDT 120 ohm 25 KV pk; 25 A AC/DC. Max-operate 25 ms; release 10 ms. 1.3" dia mtg flange; o/a 3.3"Hx3.3" dia; 2#. \$60.

8-26, SPST 118 ohm 28 KV pk; 7.5 A AC/DC. Max-operate 30 ms; release 10 ms. 1.1" dia thread; T-shaped. 1/2" 2.5x3.5x1.5. \$53.00

#RBID-26, SPDT 265 ohms; 12 KV pk 15 A AC/DC. Max-op 18 ms; release 9 ms. 2.5"H x1" dia; 1.4" dia flange. \$60

#RJIA-26 SPDT 335 ohms; 3.5 KV pk 18 A AC/DC. Max-op/release: 8 ms. 1.3"H x0.8" dia, \$35.

MICROWAVE

HEWLETT-PACKARD
33103A SPST MICRO-
WAVE SWITCH 0.1-18
GHz; 2-SMA female
& Microdot (f) bias conn.
0.2" Lx1. Used, \$24.95

ELCOM AT-53-10 ATTENUATOR,
10 DB with SMA connections;
gold-plated. 1.5x0.3" dia.
NEW, \$14.95 \$11.95

RCA 4012/Al157 TWT, 2.0-
4.0 GHz, 36 db min, 20 MW
min. 154"1 x 52" x 12" w.
4 lbs. sh. Unused, \$40.00

2-GANG, 25-485
pf & 23-437 pf
0.03" gap. Has
1.5" & 0.6" dia
pinned gears.
O/a 4.5x3.4x3.
#C-222/T195, used, \$8.

TUNING CAPACITOR
PRC-10, 38
54.9 MMZ;
GANGS, 5-33 pf/
GANG. With 12" AND 5/8"
DIA. GEARS; 3/16" DIA SHFT.
1x1.5x8/4, USED, \$4.95

AO-105 OSCILLA-
TOR, has pre-
cision 21-220
pf air capaci-
tor w/ right
angle drive,
4-55 pf trim-
mer, 100 KHz
xtal & oven,
feed-thru caps 3/1000 pf &
1/2000 pf, and tubes 6AB4,
6AH6, 12AT7. P/O TMC xmit-
ter master oscillator;
pictured without cover. O/a
8x8.6x11.104. USED, \$17.

TUNING CAPACITOR ASSY
#RT-68-7 T
xmitters; 6
sections;
four 8-64 pf
two 8-55 pf
Also six 4-23 pf
trimmers. Dual geared 3/8"
dia shafts; o/a 4.8x4.8x3,
3 lbs. #3D906TE6, unused \$15

2-GANG, 14-78
pf & 17-100
pf 0.09" gap
Shaft 3/4"L
x1/4" dia;
O/a 3.3x1.5x3.3. 3 lbs. sh.
#C-221/T-195, used, \$8.95

with AM capaci-
tors, one FET/
two transistor
oscillator;
requires -12 V
Shaft 1"Lx1/4"
dia; o/a 3.5x2.3x2.8, 2 lbs
sh. Alps #FB11303, NEW, \$4

KILOVAC DPDT VACU-
UM RELAY, similar
to Jennings RB3.
6 VDC 6 ohm coil;
12 KV pk. 30 A AC/
DC. Max-operate 20
ms. Threaded base
1.1" dia; o/a 2.6"
Hx1.8" dia. NEW;
#H14/S2. \$55.00

#78GE SPDT VAC-RELAY - Jen-
nings RB1D; 26 VDC 265 ohms
12 KV pk 15 A AC/DC. 2.8"Hx
1.4" dia flange. NEW \$59.50

SPDT VACUUM
RELAY ASSEMBLY
antenna trans-
fer relay from
Collins 180L3 an-
tenna tuner; coil
28 VDC 36 ohms.
O/a 5x6x2.3, 3#.
#K712/180L3, used, \$19.45

ARC-5 PARTS

SCR-274/ARC-5 COMMAND SET
replacement parts:
#7274 6-9 MC 1st IF, \$5.00
#7277 6-9 MC 1st IF, \$5.
#7279 " 3rd IF, \$5.
#5856 " oscillator \$5.
#6234 " RF sect. \$9.

#7249 5.3-7 MC BC-458/T-21
xmitter PA coil, used \$6.
#6032 6-9.1 MC BC-459/T-22
xmitter oscillator coil \$4.

SINGLE GANG 8-26
pf 0.06" air gap;
2.8" disc removes
for 0.5"Lx1/4"
dia shaft. W/ four
1.8"H insulators.
Capacitor 1.5x2.8x3.1 o/a.
#7660443-8. USED, \$5.95

DUAL 4-20 MMF 2000 VDC 1x
1x3 SHAFT 3x2 P/O BC-640
CARDWELL 420/2M REM \$3.95

3-GANG 10-60 pf/gang; 0.03"
gap; shaft 1/4" dia. o/a
1.5x4.3x1.5. ASP #4083, \$4.

3-GANG 10-148 pf/gang with
right angle gear tuning; P/O
GRC-109 receiver. Shaft 0.4"
x1/4" dia; o/a 2.3x5.3x2, 2
lbs. #C1012/R1004, used \$10

JOHNSON #158-6-2, 6-140 pf
trimmer. Shaft 3/4"L x 1/4"
dia; o/a 2.6x1.2x1. \$3.50

SINGLE GANG
20-400 pf
0.02" gap;
ceramic in-
sulated. 3/4"
x1/4" dia shaft; o/a 4x1.5
x1.8. #C1003/T195, USED \$11

SINGLE 12-475 pf
0.02" air gap;
vertical mount.
Shaft 0.4"Lx1/4"
dia; o/a 3.8x2.4
x2.5. Used;
#C123/URM25, \$9.

SINGLE 5-23 pf 1200 V pk; 1"
x1/4" dia shaft; o/a 1.3x
2.8x1. #C73E025, Used \$1.50

MINI-VARIABLE, 10-220 pf w/
0.5"Lx3/16" dia shaft; o/a
1x1.3x1.1. #1800-07, \$3.50

TRIMMER 5-140 pf screwdriv-
er adjustable; 1.3x2.3x1.
#19K29862, unused, \$1.75

BC-624 RECEIVER
RF TUNER for
100-156 MHz AM;
w/variable cap-
acitors, coils,
etc. P/O SCR-522
5x5x5, 7# USED;
#22K11150, \$6.00

ONE TUNER

450-900 MHz VARIATOR TUNER,
use for TV or modify for
scanners. Approx 47 MHz IF
out; 300 ohm ANT input, 50
ohm OSC out. Requires +15 V
(B+), 3-10 V (AGC), 0-30 V
(tune). 3.5x3.5x1, 1 lb sh.
GE #EP8566X, unused, \$5.95

ROLLER INDUCTOR
ASSEMBLY f/ 30 W
2-12 MHz power amp; 47-turn
#14 wire form 4"Lx2" dia
coil (45 ohm). Has right an-
gle drive with knob. Mount-
ed below (not shown) are
RF xformers, 22 & 82 pf
7500 V mica capacitors. W/
frequency. 6.5x9.5x6, 9#.
#1301/AM-RR, used, \$34. \$32

3-GANG, 20 -
540 PF per
gang; 500 V-
peak. Shaft
3/4"Lx1/4"
dia; o/a 4x1.5x2, 1 lb sh.
#ASP-074-048, NEW, \$9.95

ALL PADDER CAPS.
REQUIRE SCREW-
DRIVER ADJUST.

#103 382 4-21 pf \$7.5
657 73 6-55 pf 79¢
SBL72265-2 8-32 pf \$7.5
CT13E099M 10-100 pf \$1.50

#366-840, 7-25 pf 0.1" min-
imum gap, screwdriver ad-
just; 1.9x1x1.6. \$1.95

#6563/R174, 2-11 pf screw-
driver adj; 1x1x1, \$1.50
MINI-TRIMMER, 9-25 pf; 1/4"
x3/16" dia shaft. O/a 0.8x
1.5x0.6. #K14008, \$1.25
TRIMMER 6-75 pf SCD-adjust;
1.3x1.6x1. #CT1C075, \$1.25

RECEIVER-TYPE VARIABLE CAP-
ACITORS, multi-section with
fine 500 V or less spacing;

#19825923, 2-section 20-450
pf; 1-section 20-250 pf;
dual shaft 1/4" & 1/8" dia.
O/a 1.5x3.5x1.5. UNUSED \$5

#NR-4200, 4-gang 15-200 pf/
gang; split shaft 1"Lx1/4"
dia. O/a 1.5x4.1x1.8. \$5.

#SC-577, 3-GANG 40-450 pf/
gang; shaft 0.3"Lx1/4" dia,
o/a 1.4x2.8x1.4. USED \$9.50

#NR-2045, 2-gang 10-45 pf/
section; 1"Lx3/8" dia shaft
has 3.1" dia dial cord
wheel. 1.5x3.4x1.8. \$3.75

3-GANG 15-160 pf/section
0.02" gap; 1/4" dia shaft.
1.8x4.5x1.5. #3TH160, \$3.95

3-GANG, 20 -
540 PF per
gang; 500 V-
peak. Shaft
3/4"Lx1/4"
dia; o/a 4x1.5x2, 1 lb sh.
#ASP-074-048, NEW, \$9.95

AIR PADDER CAP

ALL PADDER CAPS.
REQUIRE SCREW-
DRIVER ADJUST.

#103 382 4-21 pf \$7.5
657 73 6-55 pf 79¢
SBL72265-2 8-32 pf \$7.5
CT13E099M 10-100 pf \$1.50

#366-840, 7-25 pf 0.1" min-
imum gap, screwdriver ad-
just; 1.9x1x1.6. \$1.95

#6563/R174, 2-11 pf screw-
driver adj; 1x1x1, \$1.50
MINI-TRIMMER, 9-25 pf; 1/4"
x3/16" dia shaft. O/a 0.8x
1.5x0.6. #K14008, \$1.25
TRIMMER 6-75 pf SCD-adjust;
1.3x1.6x1. #CT1C075, \$1.25

SPIRAL INDUCTO-
TUNER, 60-90
MHz 3-section
50 pf paral-
lel; 4.5 turns
silvered. 1.5x
3.8x2. #37695, \$8.

PA LOAD SWITCH

PA BAND LOAD
SWITCH, good
source of RF
parts with 7
CRL 850-Gen-
ies 7.5 KV caps; 3/20, 40,
2/50, & 100 pf plus 7 gold-
plated bypass caps 2/500 &
5/150 pf. Also 2/CRL JV9000
18-pos ceramic switch deck;
switch rotor has 9 connect-
ed contacts. 2.9x5.5x2.5, 2
lbs. #S101/PRC47, used \$20.

ROLLER
INDUCTO-
F ASSEMBLY
WITH 11E
VAC 400
Hz motor
drive,
2.4" x 1.3"

x 1.75" dia coil; 26 turns
#18 wire approx 14 uH with
center tap. Designed to re-
sonate antenna to a trans-
ceiver's frequency. 4.5x
2.8x2.8. 5 lbs; used.
#T301/CU-991, \$14.95 \$12.

ROLLER
INDUCTO-
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VAC 400
Hz motor
drive,
2.4" x 1.3"

x 1.75" dia coil; 26 turns
#18 wire approx 14 uH with
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ROLLER
INDUCTO-
F ASSEMBLY
WITH 11E
VAC 400
Hz motor
drive,
2.4" x 1.3"

ANTENNA LOAD

ANTENNA LOAD ASSEMBLY from
AM-3349/GRC-106, includes
S1 2-deck 5-position ceramic
switch, 12 37 uH inductor,
C27 15-355 pf air cap-
acitor, 26/ 1000 pf feed-
thru caps & two Globe or =
24 VDC motors. LESS C26 va-
cuum cap and L1 vari-inductor.
Cutting of plastic sup-
ports required for parts re-
covery. 5.5x9.5x5.5, 8 lbs.
#AL-GRC-106, "AS-IS", \$17.

"PANCAKE" ROLLER INDUCTOR.
7 uH horizontal 9-turn 3.2"
to 9" spiral with silver-
edged 1/2" copper ribbon
tracked by roller on rotary
arm. Spiral on 10.5"x11.5"
x0.6" fiberglass deck; part
of 10 KW network. 9 lbs sh
#P-IND-75, used, \$37.50

ROLLER
INDUCTOR.
50 uH 38
turn edge
wound
3/8"W
silvered
ribbon forms 8"Lx4.3"
dia coil; fiberglass end
plates. P/O 1 KW antenna
tuner; o/a 7.3x13x5.2, 8
lbs. #L1/CU938, used, \$70.

VARIOMETER COIL
P/O ART-13 xmit-
ter, 6-turn 3"
dia stator with
2.5" dia 7-turn
rotor (2-11 Hy);
#12 tinned wire.
Fiberglass end
plates; spline drive.
O/a 5"Hx5.5"Lx2.5"W, 3 lbs.
#L12/ART13, USED, \$14.95

DISCRIMINATOR

CV-531
LOADING-
PHASING
DISCRIMINATOR
part of

Collins 180R6/CU-749 antenna
coupler; used to deter-
mine if load is <, =, or
= 50 ohms. Also if load is
inductive, resistive or cap-
acitive, & an SWR circuit.
Discriminator outputs are
DC voltages proportional to
the error. Has HN RF con-
nection. Use with a sensi-
tive zero-current microam-
meter in your own antenna
circuit! 2x5x2, 2 lbs sh
USED with schematic, \$18.95

PHASE & LOAD
DISCRIMINATOR,
functionally
similar to
CV-531 except
referenced to
52 ohms plus
third output
proportional
to relative
antenna current;
2x3x3, 2#. Used, w/schemat-
ic. #T201/180L, \$12.95

CV-531
LOADING-
PHASING
DISCRIMINATOR
part of

Collins 180R6/CU-749 antenna
coupler; used to deter-
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2x3x3, 2#. Used, w/schemat-
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Collins 180R6/CU-749 antenna
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nection. Use with a sensi-
tive zero-current microam-
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circuit! 2x5x2, 2 lbs sh
USED with schematic, \$18.95

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third output
proportional
to relative
antenna current;
2x3x3, 2#. Used, w/schemat-
ic. #T201/180L, \$12.95

CV-531
LOADING-
PHASING
DISCRIMINATOR
part of

Collins 180R6/CU-749 antenna
coupler; used to deter-
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Discriminator outputs are
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the error. Has HN RF con-
nection. Use with a sensi-
tive zero-current microam-
meter in your own antenna
circuit! 2x5x2, 2 lbs sh
USED with schematic, \$18.95

INSULATORS

THRU-PANEL CERAMIC SPLIT BUSHING with center bolt and hardware:

#TPB-2125, two 1.3"x1.1" dia ceramics for 0.5" thick panel. \$1.75

THRU-PANEL ceramic split bushing w/ 1" DIA CLIP for clip-in resistor or capacitor: one 1.1"H and one 5/8"H x1.4" dia ceramics for 1/2" thick panel. #TPB-CL. \$2.50

PORCELAIN STAND-OFF INSULATOR w/CLIP for clip-in resistors or capacitors. 2"H x1" dia w/90 angle 3/4" dia clip. #NS40416. \$2.00

PORCELAIN STAND-OFFS, no bases but screw threaded: #P-4H-75D. 4"H x 0.75" dia; #8-24 threaded. \$.75 ea; #P-7H-100D. 6.8"H x 1" dia; #10-24 threaded. \$1.00 ea

INSULATOR POSTS for mounting capacitors, coils, etc. 1.7"Hx3/8" square; 1/8" dia thru-hole near top; base hole threaded for chassis screw. #IP-1706. \$41.00

#IP-1008 INSULATOR POST. 1.0"Hx0.8" dia; threaded for 6-32 screws. 4/\$1.00

STRAIN INSULATORS Brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole; 1 lb. #ST1-2123D. \$.65 ea; 4/\$2.

EGG-TYPE PORCELAIN STRAIN INSULATOR. 1.3"Lx1"x1" with two 1/4" dia holes. #INS-EGG-95, NEW, \$1.25 ea

1-POWER FEED-THRU INSULATOR, top 4"H x6.3" dia ceramic has 1.5" dia hole & 8.3" dia collar for mounting. Bottom ceramic 4.5"H x5.3" dia; 20#. #INS-HP. \$22

CERAMIC FLEX COUPLINGS f/ 1/4" shafts: #1637 (Johnson) 250. X-type 1.3"W. NEW \$3 \$300249. 1.1" di fiber disc on 1.3"Lx0.6" dia ceramic; o/a 1.6"L. UNUSED, \$2.50

RP-5 STRAIN INSULATOR. 4"Lx 0.8" dia, top 1/4" di holes 2.75" O.C. Similar to IN-88 style. #3G1250-64.15, \$1.25

SPREADER, brown porcelain 8.5"Lx1.6"Hx1"D reinforced 0.5" dia hole on ends; 3#. #SP1-85181. \$1.75; 2/\$3.

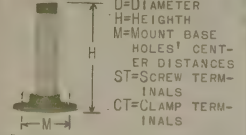
GLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #SG110-160, \$1.50

ABB Type LV SURGE ARRESTER ceramic unit rated 3 KV; 9.3"Lx3" dia. Includes iron mount bracket, ground wire with strap, hardware; 7 lbs. #ABB-LV4/91. \$15.

HEAVY DUTY EQUIPMENT HANDLES on 3.7x2.5 steel plate w/three 1/4" dia bolt holes 2.75" #HAND-92, used \$3.75/pr

STAND-OFF'S

STAND-OFF INSULATORS, CROW'S FEET TYPE, BRASS AND PLATED BRASS BASES AND TERMINALS.



#B-H3-D1.25-ST3, BROWN CERAMIC; M=2.25". TERM. CAP SIZE: 7/64"x3/8" DIA. SHPG. WT: 2 LBS. \$2.75

#B-H4-D1.25-ST2, WHITE; M=2.25". TERM CAP: 1/16"x5/8" DIA. 3 LBS. \$3.25

#XU-H5-D1-ST, WHITE; M=2.25" TERM CAP: 1/16" DIA. \$3.00

#H-H5-D1.25-ST, WHITE; M=2.625". TERM CAP: 3/8"x1/4" DIA. 3 LBS. \$3.75

#B-H5-D1.25-CT, WHITE; M=2.25". TERM CAP: 1/16"x5/8" DIA. 3 LBS. \$4.00

#B-H7-D1.25-ST, brown, M=2.6". Term cap 1x1-3/4" dia; 3 lbs sh. \$4.75

QUANTITY DISCOUNTS on stand-off's! 1Q-25 ea (1-type) 20% OFF; 25% (26-99), 30% (100+)

AC LINE CORDS

GROUND FAULT INTERRUPT (GFI) LINE CORD, 12 ft 3-conductor 18 AWG cord with RESET button. #18-GFI, NEW, \$2.50 ea

3-COND LINE CORD, 8 ft #18 wire. Black; molded plug. #BL-3CG, used cut-off, \$1.15

"PIGGYBACK" CORD, 8' 3-cond #18; plug has receptacle for another plug. NEW, \$1.65 ea

14 wire 3-COND CORD, 6 ft flat with right angle plug; black. #14-3CBF, \$2.00

BUSINESS MACHINE CORD, 3-blade type with AC plug; 6' black. #BP-NS, \$2.50 \$2.

HEATER CORD type H3J, 3-cond 7.5' #16 wire; grey molded R/A plug. #HSJ-16 \$2

SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #763B04. 4 sw, \$.75; 5/\$3.

TAP SWITCHES

ELECTRO SWITCH TAP SWITCH, 3 lbs. UNUSED: \$568-5893, 4PDT 60 amps 40 VDC; w/knob. 4x4.4" dia \$7 #124106LE, 6PST 45 A 600 V cont. 40 A 600 VAC interrupt; no knob. 5x4.4, \$10

6-POSITION CERAMIC TAP SWITCH for 100 W BC-375 watt; 2.3x2.3 x1.8, 1 lb. NEW. #329605 \$3.75 ea 10 for \$32. 100 for \$265.

CIRCUIT BREAKER

AN-3161-style PUSH BUTTON aircraft circuit breaker, 24-30 VDC; 2x3/4x2: 5 amps, \$1.25 10 amps, \$1.50

E-T-A CIRCUIT BREAKER. ETA #46-200-H push-button style with separate reset rocker & mount flange. Fits into 3/8" hole; requires 2" depth. Rated 250 VAC; specify 0.1, 0.3 or 3 amps. 1.3x2.8x0.5. USED, \$1.85 ea

ETA #41-06-P30, small 1.9"H x0.8x0.4 250 VAC 0.5 amp breaker. UNUSED, \$1.95 ea

AIRPAX BUTTON BREAKER rated 250 VAC/50 VDC 2.7 trip amp 2.4"Hx1.4"Wx0.6"D. NEW: #P411-2.00A-XX-V, \$1.50

HEINEMAN AM12HK-type, 2.5x2.8x2.3 32 VDC 8 A \$2.50 32 VDC 20 A \$3.00 60 VDC 20 A \$3.50

FAM33MG3, two pole 115 VAC 10 amp; 2.3x2.5x1.5, \$2.50

#JAZ-AB-A, 240 VAC; hold 17A, trip 21.25 A \$2.00

HEINEMAN CD2 type breakers, ganged two pole. 4.8x2x4, 2 lbs. NEW:

#CD2-210-1, (Rt.) 0.035 A DC Cur P. (Lt.) 1.68 A 270 VAC 60 Hz Cur 3. \$4. \$2.50

#CD2-274-2, 10 A 132 VAC 60 Hz T.D. 2; 125 A 10 VDC T.D. 3. \$4.25 \$2.75

#CD2-A3-DU, two 18 amp 240 VAC T.D. 1. \$4.50 \$3.00

HEINEMAN PUSH RE-CIRK-IT, 5/8" dia "fuseholder-size"; 2.5 amp 50 VDC or 250 VAC #KD1-2.5, NEW, \$1.50 ea

CERAMIC ANTENNA CIRCUIT SWITCH -deck 4-position: #1-92 3-make, \$3

2-make, #4 1-make, Shaft 1"Lx1/4"D dia o/a 4.5"Hx1.8"D dia #329626, used, \$10

ANTIQUE SWITCH, black knob rotates "ON"-"OFF"; chrome cover on porcelain base. 5/3 dia, 1#. #2148-62, \$4.

TAP SWITCH, 2-deck 4-position continuous turn; 120/240 VAC 10/5 amps. Shaft 3/16" dia, LESS KNOB; o/a 3"H. #10V-230, \$2.50

DECADE SWITCH

DECADE RESISTOR from test bridge; has ten 1K ohm & 100 ohm steps plus variable 105 ohms set by dual concentric rings for decades and center knob for variable. Precision resistors & multi-deck switch are low current. 3x3x8, 3#. #S4-SR/URM90, used, \$14.95

LEVER SWITCHES

4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM. #1155 NEW \$2.00

TV-2 tube test Pl lever sw; make 2-break 2. Removed \$2.

DPST momentary normally open; #050-338, unused, \$2.

One side SP norm-closed, 2x SPDT & SP norm-open; other side SP n-o. All momentary; Switchcraft. #LSW-96, \$2.00

2- SPDT momentary one side; other 2-SPST norm-open locking. #SW-150, used, \$1.50

MULTI-PUSH

SWITCHCHART DW-Type, each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1/2 size lamp. NEW #67097-506, 9-button Push-on/Push-off; 1x6x1x1 \$7.75

#67137-506, 13-button Push-on/Push-off; 8x2"W. \$9.75

KLIXON 15 AMP PUSH BUTTON w/2.3"W mount flange; fits 1.4"x0.8"x1.4"D hole. #43A8304, unused, \$1.50 ea

ROCKER SWITCHES 0319 SPST 39¢ 3 FOR \$1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR \$1.20

MINI-TOGGLE, 120 VAC & AMP: SPDT ON-ON, used, \$.60 SPDT ON-OFF-ON, used, \$.75 DPDT ON-OFF-ON, NEW, \$1.25 3PDT ON-ON. NEW, \$1.85

SWITCHES

MINIATURE SWITCHES, all new. Black: blk. White: wh.

SPDT on-off-on, wh. toggle (b); Also #MMD106Z, 75¢

SPDT on-on, blk. rocker (c) JBT #AR2-123, 65¢

SPDT on-on, blk. push-type. Also #SP105D, 60¢

SPDT on-on 1-1/2-amp momentary blk or wh push; CK168 85¢

SPST black rockers; not mini Carling #123, \$.60

SPDT momentary push switch; C-NC-NO. C&K #123, 2/\$1.

KLIXON THERMOSTAT SPST 4 amp 250 V. Open @ 170 F +3; 20 differential. 2.6" dia X 0.9"D. #C-2851-5, unused, \$3.00 ea

TOGGLE SWITCHES

TOGGLE SWITCHES, some single hole mount, some with mount plate; NEW or REM (removed from equipment).

AIRCRAFT-type TOGGLES, two hole mount, SPST new 5/125 B-15 .65 (momentary norm-closed) SPST new 5/125 B-9A .65 (ON-OFF-ON)

SPDT 5/125 ST-22K .75 (ON-OFF-ON momentary)

INDUSTRIAL-type TOGGLES: SPST rem 8/125 8817K2 .35 (above momentary) SPDT rem 8/125 ST-42D .35 (ON-ON)

DPST rem 5/125 ST-22K .35

DPST rem 10/125 ST-52K .40

DPST rem 10/125 8824K14 .50 (ON-ON)

DPST rem 10/125 ST-52K .50 (ON-ON momentary)

DPST new 6/125 T-WB-87 .75 (ON-ON, 1" mount barrel, 1/2" dia white ball cap)

4PST rem 15/125 7661K5 1.00

More DOUGLAS-DAZE: TOGGLE SWITCHES, SPST cut-offs, 5/91.00

MICROSWITCH kit, five SPST various styles. \$1.25/kit

C&K KEYSWITCH for electronic equipment; SPST 4 amp 125 V rated. Two keys, 5/8" dia, 1" depth. #CK-KY-SW, NEW \$3.95

WHITE BUTTONS, 1THRU 4 SEPARATE CONTACTS, 5/6, 7 WAKE 2, 3, 4 RESPECTIVELY w/COMMON. RED BUTTON RELEASES ALL. RATED 5/120/240VAC 8/ size: 4x1x1/2; WT: 2 LBS. GE#SPB128-417 UNUSED \$7.5

CRYSTALS

BLILEY 200 KHZ CRYSTAL OVEN with CR-47 size crystal as used in R-390 & R-392 receivers; 26.5 VDC, octal base. #TCO-1C-200K, \$16.00

200 KHz FT-241 CRYSTAL, \$4. FT-241 CRYSTAL SET f/BC-604 (SCR-508/528) WW-2 xmitter; 80 xtals (chan 0-79), \$85.

JKO2 CRYSTAL OVENS for CR-26 crystals Operate from 6 to 24 VAC/DC and plug into octal socket. Less xtals; USED: #251B1001, holds one xtal, \$2.25 #251B1003, will hold two crystals, \$2.75

CRYSTAL SOCKET ADAPTER for two xtals w/ 0.5" O.C. pins; fits octal tube socket. #22307-166, NEW, \$1.50 ea

100.0000 KHZ CR-37 CRYSTAL, pins 1/2" O.C.; 1.5"H. \$8.

12.0 Mhz CRYSTAL OVEN octal based unit has CR-36 crystal; 24 VDC. 1.8x1.3" dia; #XTL-MD203, used, \$4.95

EQUIPMENT BLOWERS

FASCO DUAL BLOWER, 50 CFM 115 VAC 60 Hz 0.74 amp @ 2500 RPM. Outlets 2"x1.6": one outlet is parallel to mounting base; other is at 90°, but can be modified as shown in picture. Inlets 2.5" dia. Overall 7.5x5x5.3, 12 lbs sh. Pasco Type 21, #1275217, UNUSED, \$12.50

T-368 BLOWER, 120 V 0.45 A 60 Hz; motor 1/40 HP 3400 RPM. Outlet 2.25"; inlet 2.5" dia. Mounted on 90° bracket w/ 2.75 mf 330 V capacitor. Blower o/a 6" dia x 7.5", 10 lbs sh. #B2/T368, used, \$20.00

5-BLADE COOLING FAN removed from military power supply; 4" dia rotation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. #24"D. #FAN-2054, \$4.50

5-BLADE FAN, 6-3/4" dia mounted in 9.5x11.3 aluminum frame with 8x8 removable filter. Motor rated 105/125 VAC 50/60 Hz 1/40 HP 3350 RPM; requires 4 mf 330 VAC capacitor (not supplied); 5.3"D behind panel, 10 lbs. #B201/MD141, used, \$12.

Mini BOXER 12 VDC FAN, 0.13 amp; 3.6" sq X 1". #3610N, NEW, \$10. PANAFLO MINIATURE 12 VDC FAN, 2.3" sq. #FBP-068-12L, NEW \$7.95

CENTAUR 24 VDC AXIAL FAN, 11 watts, but operates well at 12 VDC. 4-3/4" square metal frame with 5-blade plastic fan; 1.5" thick, 2 lbs sh. #CNDC24KA-601, NEW, \$10.95

FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low noise motor in metal case-mount-type frame. Approximately 100 CFM. 13.5x2, 5 lbs sh. Howard #1075-3102, used, \$4.50

DUAL 220 VAC BLOWER, 1/8 HP 3450 RPM; approx 450 CFM. Removable frame. 6.5x2x7.5, 4.09. #URC683-KP, used, \$15.

H-P ATTENUATOR

HEWLETT-PACKARD 350D ATTENUATOR, 0-110 DB using decades 0-100 DB in 10 DB steps and 0-10 DB, 1 DB steps; DC to 1 MHz response. 800 ohms unbalanced; 5 W max. 6.3x5.1x8, 6 lbs. used, \$45.

HEATSINKS

9"x4" HEATSINK ASSEMBLY with 60 V transistors: 8 ea TO-3 similar to 2N3055 and 8 ea TO-66 similar to 2N3054 plus other parts: 4 lbs sh. #0425, used, \$3.50 ea

DUAL HEATSINK STACK, each 4.5x2.5x1 with TO-3 transistor; 3 lbs. #DHS4525, used, \$2. #3929A, 4.6x4.4x2.6 with 2N2226, used, \$3 #2T34513, 3x4.5x1.3 for two TO-36, \$1.25 ea

WIK-HID HEATSINK with diode approx 100 PIV 25 amps; 5x3x1.3, 1 lb. used, \$2.50; 2/84. #2T351-4 with two 1/4" holes for transistors; 2.8x4.5x1.4 flat bottom, 1 lb. #1.50

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), \$2.

HEATSINK T-RACK, mount 8/TO-220 transistors and two diodes to circuit board. Drilled for 4-40 screws; 8.5x2x1.5. #HS-T-M12, \$1.95; 2/83.

#TMS-68, 2.5x3x1 finned area and 2.1x1.5 flange for TO-3, 0.85

SERIES 680 #1.0-G055, 1.8" sq X 1" H for 0.33" dia diode; \$1.25

COMPACT AXIAL FANS

AXIAL FANS, 4 1/2" square X 1 1/2" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed.

Rotron MUFFIN for similar; 3-blade 14W \$7. 5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, \$9. PAPST #3124F 18 VDC 2 watt or 30 VDC 3 W FAN; 9-blades, 3.5 square X 1" deep, NEW, \$10.

TORIN TA300 3.1" sq X 1" 6"D 7-blade axial fan in metal housing; 115 VAC 50/60 Hz, 2 oibs sh. Unused, \$12.95

6" DIA AXIAL FAN, 115 V 60 Hz 200 CFM; 5-blade in 6x6.8x1.5 metal frame, 38. Used, \$8.95

FIVE BLADE COOLING FAN, 4-5/8" dia. rotational no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz, 2 lbs. sh. Airtrol #11-2100, NEW, \$4.95

HUPP VEHICLE FAN

12 VDC HUPP FAN with oscillating grill designed for use in cars, trucks, buses, RV's, etc where "extra" air movement is desired. Plugs into vehicle cigarette lighter and mounts on dash or other flat surface. Good-looking white plastic enclosure has black grill and pivots on mount to adjust angle. Includes 4 ft cord and brackets; 5x 9x3.4, 4 lbs sh. #HUPP-200-14, NEW, \$19.95 \$16.

50-1800 MHz ANALYZER

HEWLETT-PACKARD 141T SPECTRUM ANALYZER with most desirable 8555A RF plug-in covering 10 MHz to 18 GHz from direct coax input. 8555A features Absolute Amplitude Calibration and Auto Tune stabilization for phase-lock. Also includes 8552B IF plug-in. See page 3 for more specs. Requires 120/240 V 50-60 Hz, 8.8x16.8x16.4, 60 lbs. USED-REPAIRABLE w/output, \$1995 \$1795 HP-8556A RF SECTION, 20 Hz-300 KHz, \$175.00 * or \$100.00 if purchased w/141T set. *

HEWLETT-PACKARD 8445B Opt 002 TRACKING PRESSECTOR for use with 8555A spectrum analyzer over 10 MHz to 18 GHz. Suppresses mixing image and multiple responses during spectrum tests. Functions as YIG filter over 1.8-18 GHz with selectable scans of 2-4-6 or 8 GHz. Uses low pass filter below 1.8 GHz. Option 002 provides COARSE and FINE manual controls and MODE Auto-Manual-Remote-Low Pass selection. Requires 100/120/200/240 V 48-440 Hz. 3.5x16.8x18.4, 25 lbs sh. USED-REPAIRABLE, \$450.00 \$375.

HEWLETT-PACKARD COAXIAL FREQUENCY METERS, 6 lbs sh. Specify: G532A, 3.95-5.3 GHz, \$290 \$195 J532A, 5.3-8.2 GHz, \$370 \$275 S532A, 12.4-18 GHz, \$290 \$195 X532B, 9.2-12.4 GHz, \$290 \$195 336A, 960-4200 MHz, \$295 \$295 537A, 3-7-12.4 GHz, \$295 \$235

VARIABLE MICROWAVE ATTENUATORS: G382A, \$195. J382A, \$240. P382A, \$150. S382C, \$500 \$400. X382A, \$150 \$125. **H-P DIRECTIONAL COUPLERS**: G752C, \$125 \$99. J752D, \$145 \$125. P752C, \$99 \$752C, \$99. Much More H-P microwave! WRITE your needs! * * * * *

HP-201C AUDIO OSCILLATOR, 20 Hz-20 KHz in 3 bands, 50 V no-load; rackmount. UNUSED, \$155

HP-200CD AUDIO OSCILLATOR, 5 Hz-600 KHz in 3 bands; output to 20 V no load. USED, \$125

HP-652A TEST OSCILLATOR, 10 Hz-10 MHz in six band; 3 V out 0.025%. USED-REPAIRABLE, \$200

HP-654A, similar to HP-652A w/bal-out, \$250

H-P VHF GENERATORS



HEWLETT-PACKARD 608B SIGNAL GENERATOR, best of 608-Series covers 10-480 MHz AM-CW-pulse; 1 and 5 MHz calibration check points over entire range make +/-0.05% accuracy possible. Modulation 400 or 1000 Hz internal; external 20 Hz-20 KHz, 0-95%. Large 3.5" dia meters indicate Percent Modulation and Output Volts-DBM. Requires 115/230 VAC 50-400 Hz; 16.4x13.3x21, 72 lbs. Used-repairable \$350 \$295. Checked \$450 \$375 MANUAL for 608B, partial repro, \$15.00

HP-612A GENERATOR, 450-1230 MHz AM-CW-Pulse; 13.5x15x21.5, 638. Repairable, \$395 \$245. FIBERGLASS TRANSIT CASE for HP608 generators 30 lbs sh. #FIB-USM-44B, used, \$40. \$32.

H-P VOLTMETERS

HEWLETT-PACKARD 400E ANALOG VOLTMETER for AC measurements with full range scales 1 mv to 300 V in 12 steps 1-3-10 sequence. DB ranges -60 to +50 in 10 DB steps. Response 10 Hz-10 MHz; input impedance 10 megohms. Requires 115/230 V 48-440 Hz; 9 lbs sh. USED-REPAIRABLE, \$75. CHECKED, \$135.00 MANUAL for HP-400E, partial repro, \$10.00



H-P MICROWAVE

HEWLETT-PACKARD 620B SIGNAL GENERATOR, 7 to 11 GHz in single band FM, pulse or squarewave modulation. Calibrated output 0.1 uv to 0.224 V into 50 ohms. Also second 0.3 MW uncalibrated output usable for phase locking. Pulse rate variable 40 to 4000 pps; width 0.5 to 10 u-sec. Uses 5721 or equal reflex klystron. Requires 115/230 VAC 50-400 Hz. 13.9x17.5x17.4, 70 lbs. Used-repairable, \$325. MANUAL 'part-repro, \$15

Other HEWLETT-PACKARD generators; repairable:

HP-618C GENERATOR, 3.8-7.6 GHz, \$350.00

50 KHZ TO 50 MHZ



HEWLETT-PACKARD 606A, 50 KHz to 60 MHz AM in six bands +/-1%. Output 0.1 uv to 3 volts into 50 ohms, vernier and step controlled. 400 or 1000 Hz modulation; built-in crystal calibrator provides either 100 KHz or 1 MHz frequency check points. Other features include constant output and modulation and low distortion. With cabinet, 10.5x19.5x13.5, 65 lbs. Used-repairable, \$165. Checked, \$295.00 MANUAL for 606A, partial repro, \$12.00

DISTORTION ANALYZER

HEWLETT-PACKARD 333A DISTORTION ANALYZER, solid-state unit measures total distortion to 0.1% of full scale over 5 Hz to 600 KHz and harmonics indicated to 3 MHz. Distortion levels of 0.1% to 100% measured full scale in 7 ranges and noise levels as low as 50 mv. Fundamental rejection >80 DB. Automatic fundamental nulling feature speeds up measurement process by completing rejection of fundamental when manually tuned within 10% of Set level reference. Wide voltmeter indicates 300 uv to 300 V rms full scale in 13 ranges, 10 DB/range. Requires 115/230 VAC 60 Hz; 16.8x13.3, 22 lbs sh. Used-repairable, \$345.00; CHECKED, \$450. MANUAL, partial repro, \$15.00

HP-332 DISTORTION ANALYZER, like 333A, but without auto-null & bi-pass. CHECKED, \$365. **HP-8708A SYNCHRONIZER**, phase-lock frequency stability for use with HP-608B/608F, \$195.

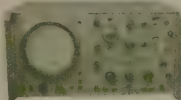
HP-310A WAVE ANALYZER



HEWLETT-PACKARD 310A WAVE ANALYZER, a frequency selective voltmeter-receiver covering 1 KHz to 1.5 MHz with bandwidths 200, 1000 and 2000 Hz; resolution 200 Hz/div. Modes AFC-Normal-BFO-USB-LSB-AM. Amplitude ranges 10 uV to 100 V full scale, 16 steps. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Has headphone jack and is operable as VLF receiver. Requires 115/230 V 60 Hz. 10.8x16.8x18.4, 50#. Used-repairable w/manual, \$250. \$175. \$125.!!

DUAL-TRACE SCOPE

HEWLETT-PACKARD 140A SCOPE (USM-309) with 1405 DC to 5 MHz Dual Trace and 1421 Time Base Delay plug-ins; 5" dia CRT. Sensitivity: 5 mV to 10 V/cm in 11 steps, 1-2-5 sequence; vernier to 25 V. Displays channels A or B alone, alternating or added. Sweeps intensified Main, Delayed, or Mixed. Range: 0.2 sec to 1 sec/cm, 21 step 1-2-5 sequence vernier to 2.5 sec. Delay 0.2 sec - 50 msec/cm in 17 ranges, 1-2-5 sequence; vernier to 150 msec. Delay before start of delayed sweep 0.5 sec to 10 sec continuously variable. Also X10 magnifier, beam finder. Mainframe is 20 MHz and accepts other 1400-Series plug-ins, 16.8x9x18.4, 54 lbs sh. Used-repairable \$147 \$125. Checked, \$195.00. MANUAL f/above, partial repro, \$15 w/set purch.



500 KHZ SCOPES



HEWLETT-PACKARD 130C SCOPE, 500 KHz band width and 0.2 mV/cm sensitivity for X-Y amplifiers useful in phase measurements. Large easy-to-view 5" CRT. Sensitivity: 0.2 mV to 20 V/cm in 16 calibrated steps, 1-2-5 sequence; vernier to 50 V/cm. Sweep 1 usec to 5 S/cm in 21 steps; vernier to 12.5 S/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto trigger, beam finder; with manual. 115/230 VAC 50-1000 Hz: 7.3x16.8x18.5, 38 lbs sh. Used: Repairable, \$157 \$85. Checked, \$145 \$155.

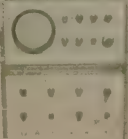
275 MHZ SCOPE



HEWLETT-PACKARD 1720A PORTABLE SCOPE, DC to 275 MHz response with dual channels, large 6x10 cm display, and selectable input impedance 50 ohms or 1 megohm. Modes Channel A or B, A+B, A & B alternating, A & B chop. Deflection: 5 mv-5 V/div in 10 calibrated steps, 1-2-5 sequence plus vernier to 12.5 V. Sweep: 10 ns-0.2 s/div in 23 steps, vernier to 0.5 sec and X10 magnifier. Trigger normal, auto or single. Delay sweep: 10 ns-0.1 s/div in 22 steps, vernier to 0.25 sec; delay time varies 0.02 u-2 sec. Calibrator: 1 KHz squarewave, 1 V p-p. Requires 115/230 VAC 50-440 Hz, 38 lbs sh. Used-repairable, \$425. Checked, \$550.00. MANUAL for HP-1720A, partial repro, \$25.00

H-P SPECTRUM ANALYZERS

HEWLETT-PACKARD 851B/8551B SPECTRUM ANALYZER, covers 10.1 MHz-10 GHz; to 40 GHz using adapters (not available). Bottom RF section has 60 dB display dynamic range; flat response over 10 calibrated spectrum widths 100 KHz-2 GHz in 1-3-10 sequence; image separation 4 GHz. IF center freq: 20 MHz. 7 MHz top display; IF bandwidth: 1-3-10-100 KHz, 1 MHz plus AUTO. Calibrated sweep 3 mS to 1 sec/cm in six steps. Manual repro included; 20x16.8x18.9, 160 lbs sh. 130# net. Used-repairable w/BWO output, \$1400. \$750.



AN/PRM-1A RADIO-INTERFERENCE-DIET-INTENSITY SET, similar Stoddart NM-208. Determines source of radiated and conducted interference and associated radiation patterns. Major component is IM-37A RFI meter which covers 150 KHz to 25 MHz in seven bands and measures RF voltage from 1 uV to 1 volt. RFI sensitivity: 2 uV/m to 2 V/m indicated on meter and via 600 ohm audio jack. Also includes ME-33 remote meter. PP-427 115/230 VAC supply, antennas AT-211-212-213, adapters UG-104-105-537, impedance match networks CU-195-197, transit cases CY-749A-750, calibration book & manual. IM-37 7.8x14x16.5; set 120 lbs sh (UPS in 2 pks). USED-REPAIRABLE, \$225.00

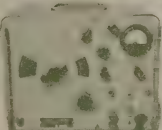
SINGLE SIDEBAND TEST



SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent IF oscillators. IF outputs: 497.5, 498.5, 501.5 or 502.5 KHz only plus 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 60 ohms (IF) with attenuation to 100 dB in 1 or 10 db steps. Requires 115 VAC 50-440 Hz. 5.5x19x11, 35 lbs. Used-repairable \$95. Checked \$155. MANUAL \$10

SG-823/URM-144 TWO-TONE REFERENCE GENERATOR for measuring receiver sensitivity and SSB transmitter distortion. Has two RF outputs usable independently or in combination without intermodulation effects. Outputs 2, 3.6, 4, 7.2, 8, 14.4, 16, 28.8 MHz at 100K u-volts max into 50 ohms. Freq adjust -0.05% (A), +0.0025% (B). Requires 115 VAC 60 or 400 Hz. 5.5x19x11, 35 lbs sh. Used-repairable \$90. Checked \$146. MANUAL \$10

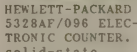
10 KHZ TO 50 MHZ



AN/URM-25F SIGNAL GENERATOR. Covers 10 KHz to 50 MHz AM in nine bands. RF output: 0.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy +/-0.05% above 10 MHz. Requires 115 VAC 50-100 Hz. 11.1x14x10.1, 44 lbs. Used, repairable, \$145. Checked, \$210.00

ACCESSORIES available w/purchase of URM-25F: BOKK-partial repro, \$10. DA-109 Dummy Load \$6 CX-2919 Test Lead Adapter, \$7.50 CU-406 Impedance Matcher, 500 ohms up, \$7.50 CU-408 Impedance Matcher, 70 ohms, \$7.50 ENG Cables, 6", \$1.00; 4 feet, \$1.50

500 MHZ K-P COUNTER



HEWLETT-PACKARD 5328A/096 ELECTRONIC COUNTER, solid-state modular design unit counts frequencies up to 512 MHz on 9-digit LED display. Mainframe has channel FUNCTION selector, FREQ RESOLUTION decade scaler 0.1 Hz to 1 MHz in 8-steps, 10 MHz reference oscillator, input for external freq-standard. Standard Universal 100 MHz Module controls Channels A & B functions LEVEL, AC-DC select, ATTEN 1-10-100, and Marker output. Sensitivity 25 mV to 40 MHz; 50 mV 40-100 MHz. Trigger level +/-X 2.5 V atten-level. Impedance 1 Megohm shunted by 40 pf. Option 030 Channel C module provides 5-512 MHz range, 15 mV rms sensitivity. Trigger fixed; 50 ohm impedance. With Option 011 HP-1B computer interface. Requires 100/120/220/240 V 48-66 Hz; 3.5x18.5x18, 28 lbs sh. Used-repairable, \$350.00; Checked, except for HP-1 computer interface, \$495.00

H-P 1801A DUAL-TRACE



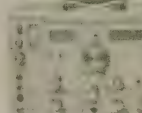
HEWLETT-PACKARD 1801A DUAL CHANNEL PLUG-IN for 180-Series military USM-281A oscilloscopes; response DC to 50 MHz. Deflection 5 mV/div to 20 /di in 12 steps. Trigger A, B, A+B, chopped & alternate; 6#. Gov't record w/manual, \$85. *****

HP-10004D 10:1 PROBE upto 50 MHz, NEW \$25.00

VERTICAL PLUG-INS for TEKTRONIX 535/545-Series and other scopes. Used-repairable: TEK CA Dual-Trace DC-24 MHz. \$125.00 \$40. TEK O Operational Amp, \$85. MANUAL repro \$15. TEK Q Transducer-Strain Gauge, \$147. \$100. TEK IA1 2-Trace 30/50 MHz Tek 545/547. \$49. TEK 82 Dual-Trace for Tek 581/585A. \$50. TEK 10A2 Dual-Trace for Tek 647. \$100 \$60. TEK TA16A SINGLE-TRACE for Tek 7900-Series scopes; DC to 225 MHz. Repairable, \$125. *****

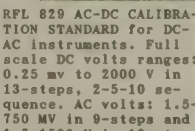
TEKTRONIX 1106 BATTERY PACK for 455, 465 & 475 scopes w/option 017. Nickel-cadmium batteries provide 22 to 24 VDC 7 AH 5 amps max. Charges from 90-120/200-240 VAC input. 2.6x 11.5x17, 20#. GOV'T-RECOND w/book. \$125. \$99

RYCOM FREQ-VOLTMETER



RYCOM 6040 FREQUENCY SELECTIVE VOLTMETER, compact solid-state unit with LCD level dBm and Frequency displays; usable as VLF receiver. Covers 300 Hz to 3.5 MHz AM-LSB-USB in ranges .30-650, 550-1650, 1300-2400, 2000-3500 KHz. Bandwidths: 50 or 3500 Hz. Max dBm Levels: -80 to +20 dBm in 10 db steps & Auto range. Impedance select 50-75-124-135-150-600 ohm Bridge or Terminating. Display 1 or 10 Hz count; built-in speaker. Requires 115 V 50-60 Hz or 12 VDC 5 AH internal battery pack. 8x12x8, 25 lbs sh. USED-operational, \$595.

AC-DC CAL STANDARD



RFL 829 AC-DC CALIBRATION STANDARD for DC-AC instruments. Full scale DC volts ranges: 0.25 mv to 2000 V in 13-steps, 2-5-10 sequence. AC volts: 1.5-750 mV in 9-steps and 1.5-1500 V in 10-steps, 15-30-75 sequence. AC-DC amps full scale ranges: 0.05-20 amps in 10 steps, 5-10-20 sequence. Accuracy +/-0.5% of full scale on large 6" wide mirror-backed meters. Frequency range 50-1000 Hz. Standard cell and original calibration books not available. Copy of general cal-book and operating info included. Requires 115 VAC 50-400 Hz; 22.8x 32.3x16.5, 200 lbs sh. Used-repairable, \$350.

BALLENTINE 9632 DVM



BALLENTINE 9632M (AN/USM-451) DIGITAL MULTIMETER, portable unit with 3-1/2 digit LCD display operates from two D-cell batteries. AC-DC VOLTAGE ranges 0.2-2-20-200-1000 V with overvoltage protect. AC-DC CURRENT ranges 0.2-2-20-200-2000 MA-10 AMPS. RESISTANCE ranges 200-2K-20K-200K-2000K-20M ohms. DIODE TEST on 2K and 20M ohm ranges. Extended freq-response 20 Hz - 25 KHz. Input impedance 10 megohms all ranges. LCD display may have bluish; "repairable" units tested to "zero" all ranges only. 2.8x8.2x9, 4#. USED-REPAIRABLE w/test leads & bag, \$39.50 GOV'T-RECOND w/"used" leads & bag, \$79.50 #9632-BAD, non-working "parts" meter, \$15.00 MANUAL for USM-451, partial repro, \$8.50

HW 0-2500 MULTIMETER



HICKOK 1604M SOLID-STATE MULTIMETER, achieves high gain by using chopper to allow use of AC-coupled amplifiers; AC response to 700 MHz. Full scale ranges 0-300 VAC in seven steps and 0-1500 VDC in eleven steps, both 0.5-1.5-5 sequence. 0-150 MA DC in 14 steps 0.15-0.5-1.5 sequence. 0-500 megohms in steps Rx1 thru Rx10M. AC probe has EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7.5x5.5x9.5, 13 lbs sh. USED-CHECKED, \$115. REPARABLE less probe \$45

HP 1000 WAVE ANALYZER

HEWLETT-PACKARD 312B

FREQUENCY SELECTIVE VOLTMETER, covers 1 KHz to 18 MHz AM, AF, AFC, BEAT, USB, LSB in 18 overlapping bands indicated on 7-digit readout. Features synthesizer for tuning that is phase-locked in 1 MHz steps. Bandwidth 200, 1000 or 2100 Hz. Reference level -40 to +20 DBM in 10 DBM steps. Amplitude -60 to 0 DB in 10 DB steps. Impedance selectable 50, 60, 75, 124, 135, 150 or 600 ohms balanced or unbalanced. Audio output > 0.5 V rms into 10K ohm full scale deflection. Recorder output 1 V full scale deflection open-circuit. Requires 115/230 VAC 50-400 Hz; 16.8x10.5, 18.8, 51 lbs sh. USED-REPARABLE, \$250.00

DISTORTION ANALYZER

TS-723 DISTORTION ANALYZER, similar to Hewlett-Packard 330B; used to evaluate output of audio amplifiers. Measures harmonic distortion as percentage and in decibels and noise level in RMS or DB values referenced to 1 MW across 600 ohms. Response 20 Hz to 20 KHz; distortion sensitivity as low as 0.3% of meter full scale. Noise amp range: 40 db +/-1 db from 20 Hz-15 KHz. Set-level amp gain: 20 db +/-1 db 20 Hz-20 KHz. Input impedance 200K ohms shunted by 40 pf. Built-in AC VTVM has ranges 0.03-300 Vrms in 8 steps; -30 to +50 db in 8 steps. VTVM response 10 Hz-100 KHz. With tubes OD3, SY3, 3/6AC7, 2/6J5, 4/6J7, 6Y6. Requires 115/230 VAC 50-1000 Hz. 10.5x13x12, 50 lbs sh. USED-CHECKED, \$165.00

TEKTRONIX 465M SCOPE

TEKTRONIX 465M (AN/USM-425) OSCILLOSCOPE, militarized portable dual-trace unit has response DC to 100 MHz and 6x10 CM display. Deflection 5 mv to 5 V/div in 10 calibrated steps in 1-2-5 sequence plus vernier. Vertical modes: TRIG View, 20 MHz BW, CH 1, ALT, Add, Chop, CH 2 or X-Y. Sweep 0.05 usec to 0.5 sec/div in 22 steps + vernier; delay 0.05 usec to 20 msec/div. Inputs: 1 Megohm paralleled by 20 pf. Also X10 magnifier, adjustable handle, front cover and manual copy. Requires 100-132/200-264 V 48-440 Hz; 7x1.7x21.5, 32 lbs sh. Used-reparable w/trace, \$350. Checked, \$495.

SOLID-STATE OSCILLATOR

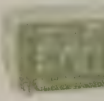
AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/-2%; stability +/-0.5%. Requires 115 VAC 50/70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. Used-reparable, \$85. Checked, \$115.00; MANUAL partial repro, \$10.

H-P USM-338 O-SCOPE



AN/USM-338 OSCILLOSCOPE militarized Hewlett-Packard 1707B solid-state 75 MHz dual-trace scope is all-spec rated to 50 MHz DC response; 6x10 CM display. Deflection: 5 mv - 20 V/div in 11 ranges 1-2-5 sequence + vernier to 5 sec. Delay: 0.1 usec to 0.2 s/div, vernier to 0.5 sec. Input: 1 megohm shunted by 30 pf. Calibrator 1 KHz squarewave, 1 V p-p. Also X10 Magnifier and Beam Finder. With front cover and manual copy; probes not included. Requires 115/230 VAC 48-440 Hz or 11.5 to 38 VDC input; 10.3x13x20, 42 lbs. Used-reparable, \$250.00; Checked, \$350.00

0.5 - 512 MHZ AM-FM



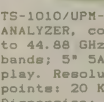
HEWLETT-PACKARD 8640B opt 323 (AN/USM-323) SIGNAL GENERATOR, ruggedized military version of popular solid-state HP-8640B. Covers 500 KHz to 512 MHz AM-FM-Pulse in ten octave ranges using 6-digit LED readout; to 1024 MHz using external freq doubler (not available). Output: 0.01 uv to 2 V (-144 to +19 DBM); modulation 400, 1000 or 5000 Hz. Pulse freq: 0.05-5 KHz. Resolution 10 Hz (0.5-4 MHz), 100 Hz (4-64 MHz), 1 KHz (64-512 MHz). USM-323 does NOT have these HP-8640B features: seventh 1/2 digit, X100 Expand, external count input, or phase-lock. Mounted in transit case. Requires 103-127/207-242 VAC 48-440 Hz; 7.8x19.5x22.4, 70 lbs. Used-checked w/manual copy, \$1250. \$995

SWR MEASURING SET



AN/USM-37D STANDING WAVE RATIO MEASURING SET for accurate SWR measurements over 3 to 12.4 GHz. Consists of Hewlett-Packard 415E SWR indicator, 444A untuned probe, 809B 3-12 GHz coaxial slotted section, 809B slotted carriage, H810B (7-10 GHz) & X810B (8.4-12 GHz) waveguide slotted sections. H & X281A waveguide to coax adapters, HX292B waveguide adapter, and fiberglass transit case. HP-415E is solid-state tuned audio amplifier designed for use with square-law detectors to determine SWR and attenuation. Range 70 DB in 10 to 2 DB steps. Meter scales for SWR: 1-4, 3.2-10 (NORM), 1-1.24 (EXPANDED) and DB: 0-0.5 (N) or 0-2 (EXP). Amp output 0-0.03 uv (N), 0-0.08 (EXP). Requires 115/230 VAC 50-400 Hz. HP415E 7.8x6.2x11; 40 lbs sh. USED-REPARABLE w/book, \$445. \$400

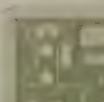
SPECTRUM ANALYZER



TS-1010/UPM-64 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" 5ADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center freq +/-2.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz usec.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26, 230 lbs sh w/case. Used-reparable, \$1250. \$345.00 MAINTENANCE MANUAL, partial repro, \$15.00 OPERATOR'S MANUAL, partial repro, \$8.50

ACCESSORY KIT for UPM-64 including five bandpass filters for segments of 0.75-11.8 GHz range, three variable attenuators and three coax to waveguide adapters for 12.4-44.88 GHz; 20 lbs. \$95.00 with set purchase.

SIERRA 128A CARRIER TEST

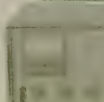


SIERRA 128A FREQUENCY SELECTIVE VOLT-METER for analyzing carrier signals over 10 KHz to 15.1 MHz LSB-AM-USB; utilizes all-transistor frequency lock Could probably be used as receiver. Separate circuits for MHz and KHz tuning each with controls COARSE, FINE, CURSOR, and input TRACKING SIGNAL BNC jack. Voltmeter has ranges 30 uv to 30 V in 13 steps; DB ranges -50 to +30 DB. Select 75-135-600 ohm termination or 1 MHz calibrator; also Selectivity WIDE-NARROW, Main Tune LOCK-CONT, Audio GAIN, and phone jack. Requires 115 V 60 Hz or 28 VDC 220 ma. May have brown or beige front panel; 12x 20x15.5, 52 lbs sh. Used-reparable with book \$165.00

SIERRA 360B SPECTRUM

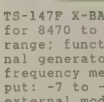
DISPLAY for use with Sierra 305A or 128A selective voltmeter; has 3x5 P7 long-persistence CRT. Sweep width 120, 12, or 3.6 KHz, 25 DB response. Rate: 3.5 / 1 sec Normal/Search @ 120 KHz width; 10/3.5 sec @ 12 or 3.6 KHz. Attenuator 0-20-40 DB calibrated plus +5 to -20 DB vernier. Marker amplitude +5 to -20 DB. Input impedance 50 ohms; IF input 21.1 MHz @ 50 uv. Oscillator input 18.8 MHz. Requires 115/230 V 50-60 Hz; 5.3x 19x15, 28 lbs. Used-reparable w/book, \$150. Ruggedized CASE & FRONT COVER 7/360B, \$20.00

FREQUENCY SELECTIVE



SIERRA 125B FREQUENCY SELECTIVE VOLTMETER for carrier communications measurements or useable as VLF receiver, if you make a preamp for it. Frequency range 1-620 KHz in one band. Attenuator -70 to +30 DB in 10 DB steps or 0.003 to 30 V-rms full scale in 11 steps. Bandwidth 250 or 2500 Hz, line impedance 135 or 600 ohms, and two calibrators. Requires 115/230 VAC 60 Hz; 10.3x17x14.5, 40 lbs sh. Used-reparable with output, \$79.50

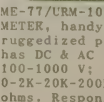
K-BAND TEST SET



TS-147F X-BAND TEST SET for 8470 to 9630 MHz range; functions as signal generator, power and frequency meter. RF output: -7 to -85 DB FM-CW external modulation. Sweep variable 0.2 to 6 MHz; pulse repetition to 4000 pps. RF level input +7 to +30 DB. Sawtooth sweep 0 to -100 V. Uses 2K25 klystron. Requires 115 VAC 60-1600 Hz. 11.5x 17.5x10, 40 lbs sh. USED-REPARABLE, \$225.00 MANUAL for TS-147D only, partial repro, \$12. AT-68 PICK-UP HORN, \$12.00. UC-446 ADAPTER, UC-39 flange to N conn, \$12 UC-397 ADAPTER, UC-52A flange to N conn, \$12

TS-403 RF GENERATOR, 1.8 - 4.2 GHz; 0.1-200K uv out. Similar to HP-616B; 70 lbs. USED-REPARABLE, \$250. Manual, partial repro, \$12. SG-557/TS-621 RF GENERATOR, 3.8-7.5 GHz FM-CW-pulse; 110 lbs. REPARABLE w/book, \$265.

ME-77 VOLT-OHM-METER



ME-77/URM-105C VOLT-OHM-METER, handy meter in ruggedized plastic case has DC & AC ranges 0-10-100-1000 V; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10K Hz; has 3.5" dia FS=50 ua-meter. Requires 4 AA batteries for XI-X10-X100 ohms; 22.5 VDC battery (not available) for XI-X10K ohm scales. W/test leads & alligator clips; 6.6x4x3.3, 38 lbs. Used-good, \$22

mu
0.

5-digit scaler as differential meter. Solid-state; w/cover & operator info. 115/230 VAC 60 Hz; 11x12.5x15, 30#. Used-reparable, \$55.

AN/URM-25 SIGNAL GENERATOR

HEWLETT-PACKARD 3550A

HP-204B AUDIO OSCILLATOR.

HP-403B AC VOLTMETER (Opt 001)



HP-353A TELEPHONE PATCH PANEL.

HO2-353A PATCH PANEL, similar to above ex-

HO2-353A PATCH
cept attenuat
slide switch
terminals. Re
DC-res. Max v
for W.E. 309

0.3 mm

sign accuracy. Output +20 to -110 DB in 10 DB steps and 13 DB vernier; CW or Sweep SYM-Video-Full. AM-FM modulation 1 KHz. Requires 115/230 VAC 60 Hz. 6x7.8x16, 26#. Used-repairable w/output & manual. \$395.

9S-106/USM-117 TRANSISTORIZED OSCILLOSCOPE, DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus has dual-trace capabilities when used with MX-2995 plug-in (not included). Sweep range 0.1 used to 0.1 sec in 19 calibrated steps in 1-2-5-10 sequence. Vertical sensitivity: 0.01 V/div, 0.20 v/div in 11 calibrated steps in 1-2-5-10 sequence, variable to 50 v/div. Input impedance: 1 Megaohm shunted by 47 pf. Calibrator generates 1 kHz square wave at either 0.04 or 0.4 V p-p. Requires 115 VAC 50-60 or 400 Hz. 8.5x9x.8x15; 20 lbs. Used-repairable, \$465. \$95. Checked, \$265. \$175. USM-117 with DUAL-TRACE MX-2995 PLUG-IN instead of MX-2996, add \$75 to above prices. MANUAL for USM-117, partial repro, \$15.00 MANUAL for MX-2995, partial repro, \$15.00

NORTHEAST ELECTRON-
ICS TT537BR NOISE
LEVEL-VU MEASURING
SET, solid-state
unit has 1 and 10
DB/step attenua-
tors provide Level
measurements +23 DBM to -95 DBM; Noise Level
13 DBRN to -5 DBM. Input impedances 900 &
100 ohm circuits balanced or unbalanced,
terminating bridged. Sensitivity -80 DBM
@ 0 DB. Filter select C MSG/Hz Pass 3 KHz/
15 KHz. Has large VU-meter with scales -15
to +3 VU-DB, -5 to +13 DBRN. 8.8x19x7.5,
15 lbs sh. Used-repairable w/book, \$125.00

ME-297/USM-223 FET MULTIMETER.
measures volts AC and DC to
5000 V in sequential ranges
2.5-10-50 to 5 KV, AC/DC 1000
ohm/v or DC 20K ohm/v. Also DC
current to 10 amps in full
scale ranges 0.25-2.5-10-50-
100-500 MA DC and 2.5-10 amps.
Resistance scales 1K-10K-
100K. Includes rugged plastic
case FS=50 ua meter, red-black
front cover. Requires 6-PXB1
"C" batteries (not included). 6X
sh. Used-repairable, \$34.95.
5. Manual partial repro. \$8.50

ME-26C MULTIMETER, measures AC or DC voltages and resistances at frequencies from 20 Hz to 700 MHz. AC-DC volt scale 0 to 1, 3, 10, 30, 100 and 300 V; to 1000 V DC only. Resistances measured from 0 to 500 megohms in seven ranges. DC input impedance 1000 ohms. AC input 1000 100k Hz. Vacuum tube-type including 2-01C in AC probe. Requires 115/230 VAC 50-1000 Hz. 7x11x7.5, 15 lbs sh. Used-repairable, \$65 \$45. Checked \$80-\$75 \$85. MANUAL for ME-26D, partial repro, \$10.00

DATA ROYAL F370A
AUDIO SINE GENER-
TOR (TS-421C),
general purpose
solid-state unit
has output 20 Hz to
X1-X10, X100, X1
Level Voltmeter measures
0-100 mV, 0-100 +8 DB
w/ attenuator, 0-40 DB in 10 DB steps
Output Level Meter measures 0-65 W/15 to
+38 DB with attenuators 0-10 DB in 1 DB
steps and 0-100 in 10 DB steps. Amplitude
Adjust 0-100. Output impedance 5 W max into
selectable resistive loads 50-200-600-5000
ohms. Requires 115/230 VAC 50-1000 Hz. 5.8x
17x14.8, 29 lbs sh. USED-REPAIRABLE, \$99.50
CHECKED, \$145.00; MANUAL partial repro, \$10

Why spend more money for an import scope with much less performance when you can buy mil-AN/USM-281C (Tektronix 7609N11S) OS-ILLUSCOPE, a modern, versatile 7000-Series scope with large 8 x 10 cm display and at least 65 MHz response? Includes two AN-6365 (7A15AN11) single-trace and one TD-1085 (7B53AN11) dual time base plug-ins standard. Plus the 100 kHz range, 100 MHz standard Tek 7000-Series plug-ins. Vertical deflection 5 mV to 10 V/div in 11 calibrated steps, 1-2-5 sequence; vernier to 25 V/div. Sweeps: Normal, Intensified Delay, Delayed, and Mixed. Rate 0.05 uS to 5 S/div in 25 steps, 1-2-5 sequence; 5 NS rate using x10 magnifier. Triggered rate 0.05 uS to 5 S/div in 25 steps. Required 100-120/200-240 Vac 48-60 Hz. With book: 111.59, 7x25.2, 52 lbs. sh.

USED-REPARABLE, ~~\$305~~ \$320. CHECKED ~~\$495~~ \$400
MANUAL for USM-281C only, partial repro, \$30

ADAPTERS for USM-281C/TEK 7603
sold only with purchase of scope from us:

- #103-0015 ADAPTER, BNC (f) to UHF (m) \$2.50
- #103-0032 ADAPTER BNC (m) to UHF (f) \$2.50
- #103-0033 ADAPTER BNC (m) to post, \$2.50
- #103-0030 T-CONNECTOR, BNC (f-m-f), \$3.00
- #012-0118 CABLE, 8 ft BNC, 50 ohms, \$4.00

OS-2464/USM-281E SCOPE with
AM-6566 dual-trace & TD-1086
time base-delay plug-ins. Has
DC to 50 MHz response, solid-
state circuitry and 8x10 cm
display. Deflection ranges: 5
mv to 10 V/div in 11 steps,
1-2-5 sequence plus vernier
to 25 V. Select CH 1 and/or 2
channels, alternating, and
chopped; X5 magnifier. Maximum input: 400
VDC peak AC or DC coupled. Sweep Auto, Trig-
ger or Single. Ranges 0.1 us-2 s/div in 23
steps, 1-2-5 sequence, vernier to 5 sec. Del-
ay range: 0.1 us to 50 us in 11 steps,
vernier to 125 ms. Delay time variable,
us-20 sec. Sweep magnifier X10. Calibrator
300 mv & 1 V p-p @ 1 kHz. Requires 115/230
VAC 50-440 Hz; Dumont model. 11.4x7.9x21.3,
44 lbs sh. USED-REPAIRABLE with trace, \$225.
CHECKED, \$325. MANUAL, partial repro, \$35.

OS-8G TRANSISTORIZED OSCILLOSCOPE with 3RP1 CRT; small portable unit is similar in appearance and specifications as earlier vacuum tube versions of OS-8. Response: DC to 2 MHz. Sensitivity 0.075 V-rms per 1" deflection. Sweep: 3 to 50 KHz. Input impedance: 9 megohms shunted by 1 pf. Deflection: Access to vertical and horizontal plates. Tech manual not available. Requires 115 VAC 50-1000 Hz. 9x6x13.5, 18 lbs sh. Unused, with test cable, \$115.00

OS-8* SCOPE, earlier tube-type version of OS-8G; similar specs, USED-REPAIRABLE \$39.50

9-117/URM-2 SIGNAL GENERATOR, 4 to 405 MHz AM-CW Pulse in six bands. Output 0.1 to 100K v into 50 ohms. Modulation 400 or 1K Hz 0-50%. External pulse-mod requires positive 40 v -min 50-500 pps; duration 1-40 usec and 70 ohm input impedance. Requires 115 V 50-1000 Hz. Outer case may have small dents; less front cover. 1.31x1x10.5, 3#. Used-repairable \$175 \$100. Checked \$225 \$150. MANUAL, partial reup \$10

ACCESSORIES sold only w/purchase of URM-26B: CN-315 2:1 attenuator, 50 ohms, \$8.00. CN-316 10:1 50K \$10. CN-471 10:1 70A \$11. CN-439 impedance matcher, \$10.00 BNC cords, 4 ft, \$3.00; 6", \$2.00

COMMODORE MOTHERBOARDS



#VIC-01981

#VIC-01983

MOTHERBOARDS for COMMODORE VIC-20, the ever-popular 5K memory color computer which still has a dedicated following. All components intact. *Some worked, some didn't* when we powered-up a sampling and so we are selling them "AS-IS." Good source of spare parts or, if you're a gambler, the basis for cheap computer; 3 lbs sh. Two versions to choose:

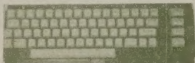
#VIC-01981, eleven 2114 RAM, 9 VAC req \$10.
#VIC-01983 with two M58725 2Kx8 RAM or equal; requires 9 VAC and 5 VDC, \$14.50 \$9.

COMMODORE C-16 KEYBOARD, originally p/w the C-16 computer--a short-lived transition computer between the VIC and C64. By switching a few wires, it will work with VIC on most keys. Change info included. 5x15x1.5; 3 lbs sh.
#KB-C16 \$3. (If purchased w/VIC board \$1.50)

MONROE JOYSTICK



Has two 150K ohm vari-resistors and "FIRE" button. 1.3"H metal control stick; no spring "return". 8' cord w/DB-9 connector 2.5x1.4x3.5. #MA8699, NEW, \$5.



JOYSTICK with four 50K ohm pots having fixed center-taps; smooth ball action. Brushed aluminum handle. 2.8x2.8x2.8.
#JS-50K-LTB, NEW, \$3.95 \$4.50



USB LF CARD RECEIVER

62 to 106 KHZ UPPER SIDEBAND CARD-RECEIVER with 455 KHZ USB 2.3 KHz bandwidth mechanical filter (Collins FA552 23C/ 526 965 010). Card has 3 dual-gate FET's as mixer, IF amp, and product detector. Also 2-stage audio amp with active 10-pass filter followed by UA716C audio IC. Cards require input of 519-563 KHz originally supplied by crystal oscillators (see below) and 455 KHz input product detector. Add your own RF amp and modify to make VLF receiver. W/ transistors 3/2N929, 3/3N187; requires 18 VDC, 0.8x 8x2.3, 2 lbs sh. VLF-USB-23C, used, \$35.
22-PIN EDGE CARD CONNECTOR for above. 2/ \$2.

CRYSTAL OSCILLATOR CARD f/ above, xtal-freq in 519-563 KHz range (our choice). Uses Colpitts-osc, "locked" 4" osc and buffer.
#XC-7759, used w/ schematic & connector, \$4.

LF CONVERTER BOARD from CEI/W-3 demodulator for 336/384/432/480 & 528 KHz. Has WJ-M6 double-balanced mixer for 0.2-300 MHz; requires 18 VDC; 16x6x2.5. #CEI-WJ-M6 w/info, \$8

EXCITER

RF EXCITER MODULE from 1980's HF transceiver; mixes 500 KHz USB signal with synthesized frequency to produce and amplify modulated RF. Synthesizer (not available) supplied 74.5/75.5 (LSB/USB) and 77-105 MHz depending upon desired output frequency; RF output is 10W level. Requires +5, +12, -12, +28 VDC; with pinout. 1x7.8x3.3, 2 lbs. #RF-EXC-1512, unused AS-18, \$25

1200 BAUD

300/1200 BAUD MODEM dual deck Auto Answer/Originate board; Bell 212 compatible. RS-232C interface, nine LED indicators for Receive, Transmit, Carrier, Clear-to-Send, Data Set Ready, Out-of-Service, etc & four toggle switches for Dis-Able Auto Answer, Receive/Send, etc. Requires +/-20 to 25 VDC and +5 VDC. 11x5.5x1.2, 3 lbs. #MT-212, UNUSED w/pinout, \$10.

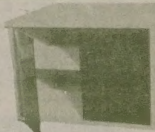
COMPUTER TOTE

LAPTOP COMPUTER CARRY-ING BAG, will fit NEC Ultralite, Tandy 100-102-1100FD, Zenith Minisport, & Toshiba 11000/SE. Heavy-duty padded black fabric bag has zipper and velcro keyboard access plus separate zipper expando compartment and two internal accessory pockets. Also adjustable straps and pads for hand, shoulder, or backpack tote. 12.5"Wx 4.5"Hx13"D, 4 lbs sh. #LT-TOTE, NEW, \$22.95



VIDEO STORAGE CABINET

Clean, new, and "stackable" units look good in the home as well as the office. Dark plexiglass doors with magnetic-latches attractively "hide" contents of cabinets and large 31"W x22"H x26"D size easily stores video and audio equipment. Great for getting the kids' or the "old man's" junk out-of-sight! Constructed of off-white vinyl-covered 3/4" particle board; shipped unassembled with adjustable shelf, casters, and hardware. All parts pre-drilled for your assembly with screwdriver and hammer. Made for Xerox; 100 lbs sh. (UPS shipping is OK!) #0136790, NEW, \$50.00 each \$60 ea \$39.50



ACTION JOYSTICK

with fire button; eight direction action. Has 3.5 ft 6-conductor cord with DB-9 connector; rewired for computer/game machines. 3.6x4.6x 3.1, 2 lbs. #MA-ACT-US, NEW, \$2.95 ea; 2/\$5.



TIME-TEMP SIGN PCB's

SCR/TRIAC CONTROLLER BOARD with seven 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/w time-temp sign. 8x6x2, 1 lb.
#ASI-CMC27, w/schematic \$3.50 \$3.



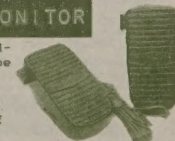
INFRARED REMOTES

INFRARED REMOTE CONTROLS, Draco mfg remotes for satellite dish positioning and channel selection. Each has A-B-C-D-E-F Satellite Select, Up, Down, and Go To functions; requires 9 V transistor battery. Cheap! Cheap to play with or use! NEW-not guaranteed; 2.8x5.8x1, 1 lb sh:
#IR-DR-AIM, "Aimers", \$1.50 ea; 2 for \$2.50
#IR-DR-CHAN, with Channel Select 1-2-3-4-5 -6-7-8-9-0, Mute & Seek; \$1.95 ea, 2/\$3.00



INTERCOM / MONITOR

ONE-TO-ONE INTERCOM/MONITOR, low-cost wire-type set allows someone to listen to kids, a sick person or pet from another room. Consists of master control with ON-OFF, push-to-talk switch, and audio electronics; a remote control with speaker only; and 20 ft wire. Requires 9 VDC transistor battery (not supplied); control size 4.9x2.5x1, 3 lbs sh. #CH-MON, unused, \$7.95 \$6/set



HY-GAIN CB BOARD

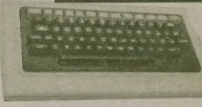
HY-GAIN CB TRANSCIVER BOARD, similar to Hy-Gain board converted in 73 Magazine to 10 meters (2/84) and 6 M (2/85). Board has xtals, IF transformers, RF coils; no schematic. On incomplete chassis; board 6.4x6, 4# sh. #PTBM036A0X, "AS-IS", \$7 ea; 2/\$12.50

EMERSON RC SET

EMERSON MULTI-FUNCTION REMOTE CONTROL SET, intended for use with ceiling fan & light, but receiver circuit board and push-button remote transmitter should adapt to experimentation and your projects. Originally one button brightened light and other two controlled speed of special AC motor (not available). Circuit board outputs to motor are fixed voltages with sequence and voltages dependent upon positions of four switch DIP code switch. Sixteen codes possible; remote actuates sequence. Receiver is not isolated from power line so extra care is necessary when working with this device. Transmitter requires 9 V battery (not supplied). Hook-up info included; 2 lbs sh. #RC-S100/1, NEW, \$14.95



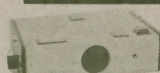
8048 CPU KEYBOARD



74-KEY MICROSWITCH KEYBOARD uses P8048 controller, an 8-bit CPU, ROM, RAM I/O package with 1Kx8 ROM, 64x8 RAM & 27 I/O lines.

Comes in compact case with QUERTY format and functions: Erase Display-Home, In Disp, Delete in Line, Insert, EOD Erase- EOL, Char Erase- Xfer, Ctl Page-Print, Unlock Mag-wait, Cursor. IC's 74H04, 7442, 8048, 5.904 MHz xtal, cord w/DBCE9S, 8.5x15x3, 5#, #2825479, \$8-\$7 \$7

HOSPITAL INTERCOM BOX

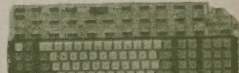


INTERCOM CONTROL BOX, an experimental light, this item was

part of hospital desk-patient communication system. 8x5.6x2 aluminum box has Licon 10 amp lighted-push switches: two SP momentary 0.8" sq, one DP mom 0.8" sq and one SP mom 0.8"x1.5", a 1.6" dia 8 ohm speaker, volume control, and 74x.5 circuit board. PCB board has socketed Sigma 70R-Series 2 amp relays 2/4PDT and 1/DPDT, two Triad TV-47X 2000 ctt: 16/8/4 ohm AF transformers, and socketed IC's LM324, 2/LM339, MC14001, MC14011, MC14028, MC14042, MC14585, 3/MC319 ULN20D4; 4 lbs sh. #MID-IC-BX, used, \$9.95 \$6.95

BALLY ARCADE BOARD

Part of home arcade game; has 280 CPU, 2364, 8/4027, 7416, DM81LS95 and 74-series LS00, 2/LS02, LS04, 2/LS10, 2/LS74, LS174, 2/LS257, LS376; 14.318 MHz xtal and other parts. No data; 8.5x11, 2 lbs.
#Z80-90701-B620, NEW \$4.50



KEYBOARD

?SURPRISE?

We have "odd" keyboards similar to the one pictured leftover from the early-1980's when the establishment of the IBM PC's standard "killed" the market for them. We offer a mixed assortment of three keyboards of our choice with IC's etc for \$10.00. Size & layout vary. See our old catalog for an idea of what to expect; 10 lbs. #3-KBD-90, \$10.00



AMP PRODUCTS CORPORATION

"CLOSED END SPLICE" wire connectors; ideal for "breadboard" wiring projects when quick, solderless crimp-on connections are desired. Connect many wires together and/or to splice in others. Each accepts #22-10 wire size; nylon insulation opening: 0.375" dia. AMP #324087, 100 for \$3.50; Box of 500, \$10.

12 VDC IMMERSION PUMP, probably from AUTO/RV market; 3/8" dia outlet moves about 1 gallon/minute. Operates on higher voltages with increased flow rate for short periods; @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/min. For Non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects. 4" L X 1.5" dia, 2 lbs. #HAR-12V-IMP. NEW. \$5.95; 2/80

12 VDC IMMERSION PUMP,
probably from auto/RV
market; 3/8" dia outlet
moves about 1 gallon/hr.
Operates on higher vol-
tages with increased f-
rate for short periods
min; @ 35 VDC, 2 gal/
fluids only because f-
acting as lubricant. U-
water or science fair
dia. 2 lbs. #HAR-12V



ONE MAN RAFT

LR-1 SURVIVAL RAFT, rugged one-man life raft designed for US aircraft pilots has black rubberized fiber

WW-2 BC-653 TRANSMITTER

MANUAL for BC-652/653 (SCR-506), \$10.00
BC-658 SWITCH BOX for intercom use, \$12.00

WOOL
COVERING
5/1

SWR POWER METER

ME-165/G STANDING WAVE
RATIO POWER METER, de-
signed for use with
T-368 400 W transmitter
uses 12/ 600 ohm 50 W
non-inductive resistor
in parallel to provide
52 ohm 600 W load with

USED" CED VIDEO DISCS for use with above; titles as recent as 1985. Write for list! Discs may have "blip-skips" during play. If intolerable, advise us within 10 days of intent to exchange; 2 lbs sh. Used, \$10 each. 2-disc movies \$15.00/set.

"AS-IS" DISCS, not tested--NO RETURNS! \$5 ea

D
B
t

AUTO-ANTENNA COUPLERS

AUTO-ANTENNA COUPLERS



5 MHZ STANDARD



MAGNAHELIC® DIFFERENTIAL PRESSURE GAUGE for air and compatible gases (no hydrogen gas!). Measures pressure as 0-2 INCHES of WATER, 0.05 increments; 15 PSI max. Accuracy $\pm 2\%$; 20° - 140° F temperature. Has two pairs 1/8 NPT high & low pressure taps; 4.8" dia X 2.3" D; 2 lbs sh. DWYER INSTR #2002C. NEW. \$19.95

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More HEWLETT-PACKARD TEST EQUIPMENT, most
one-of-a-kind, USED-REPAIRABLE with output:
* * * * *
HP-181A STORAGE SCOPE w/1804A 4-channel and
    1825A time base plug-ins, $475 $375.
182T/8557A SPECTRUM ANALYZER, 0.1 to
    350 MHz; log cal -117+20 dB, $1495
432B DIGITAL POWER METER no therm. $350.
1200B SCOPE, DC-500 KHz dual trace, $245.
1710A SCOPE, DC-150 MHz dual-trace, $395.
1722B 275 MHz DELTA-TIME SCOPE w/CPT, 5-
    function LED display, 1 ns swp $695.
3456A INTEGRATING DIGITAL MULTIMETER $600.
4490A 5-DIGIT MULTIMETER, $250.
4261A DIGITAL LCR METER, $595.
5327A 500 MHz FREQUENCY COUNTER, $120.
5335A UNIVERSAL COUNTER OPT 040, $595
8005B PULSE GENERATOR, dual w/-10 V, $250.
8080A PULSE GENERATOR MAINFRAME with
    8081A rate generator, 8084A word-
    generatr, 20 8093A 1 GHz amp $1695.
8403A MODULATOR CONTROL w/8732B, 8733B
    or 8734B PIN modulators, $600 $425.
8405A VECTOR VOLTMETER, 1-1000 MHz, $395.
8412A PHASE/MAGNITUDE DISPLAY, $250.
8501B RF NETWORK ANALYZER, includes 8505A,
    8503A & 8445 couplers, $3500 $2595.
8614A RF GENERATOR, 800-2400 MHz $595.
8655A SYNCHRONIZER/COUNTER r/8654AB, $525.
8620C SWEEP OSCILLATOR with 86290C 2 to
    18.6 GHz plug-in, $1495.
8660C RF GENERATOR w/86602B 1-1300 MHz &
    86633B AM/O Lock Fm plug-ins, $2595.
8660B with 86602A and 86633B, $2250.
8743A REFLECTION TEST, 2-12.4 GHz, $395

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ADDRESS CORRECTION REQUESTED



100 KHZ LOOP

AUSTRON MODEL 2021L LOOP ANTENNA, shielded 33"x33" loop tuned to 100 KHz; usable for VLF & LORAN C reception. Impedance 50 ohms with external BNC connection. Includes flange for 3.5" di pipe, 100 feet of RG-58 coax and manual; 1988 mfg. 10 lbs sh. NEW, \$99.50

TRC-191 VHF ANTENNA

AS-3885/TRC-191 VHF ANTENNA SET (Hy-Gain V4332), similar to 30-76 MHz AS-1729/VRC (page 13). However, mast base does not have manually tunable frequency selection like MX-6707. Top fiberglass mast section #87W535 is 60"L. Bottom mast #87W573 is 54"L and has load coil. 14.3"Lx5.5" dia base will use same mounting brackets as MX-6707; 20 lbs. UNUSED, \$89.50

AN/URM-120 WATTMETER

AN/URM-120 WATTMETER, measures incident & reflected RF from 10 to 1000 watts over 2 to 1000 MHz. Uses three plug-in coupler elements CU-753 (2-30 MHz, 50-100-500-1000 W), CU-754 (25-400 MHz, 10-50-100-500 W) and CU-755 (200-1000 MHz, 10-50-100-500 W) which fit TS-1285 meter. Max-insertion VSWR 1.08 (1.05 for CU-754/755 on 500 W range). Power range selectable on each coupler. TS-1285 has 3.5" dia meter with 0-10-50 watt scale and N connections. Transit case and manual included. 5x4.8x7.3, 20 lbs sh. USED-REPAIRABLE, \$165.00

HF-8023/8032

ROCKWELL HF-8023 POWER AMPLIFIER, solid-state 1 KW (avg) amp utilizes one driver plus four 250 W power modules to achieve rated output; VSWR: 1.3:1. Designed for use with HF-8014A exciter and power supplies HF-8031 or 8032. We offer HF-8032 to power HF8023 from 208/220/230/240 VAC 57-400 Hz 3 ϕ input. Interconnect cables & manuals not available. HF-8031 (622-3490-207): 10.5x19x25, 62 lbs sh. HF-8032: 9x19x24, 90 lbs. HF-8023/8032, used-clean, NOT TESTED, \$\$\$\$.

HF-8014A EXCITER & other HF-80 equip: WRITE:

RADIAC SET

AN/PDR-63 RADIAC SET, small modular unit, IM-226 high range module measures gamma 0-10-100-1000 rad/hour. Low range module DT-507 connects by cable and detects 0-1-10-100-1000 mrad/hr. Separate skin dose probe ADT-508 simulates radiation absorption of human skin and indicates 0-500-5000 rad/hr. Requires four AA batteries (not supplied). PP-6597 charger charges AA nicads from 115 VAC or 24 VDC input. Also includes R-43 headset, transit case and manual. Case 8.6x12x8.5; o/a 15 lbs sh. USED, \$175.00

SHRINK TUBING

ALPHA FT-105-1/8 SHRINK TUBING, 1/8" dia irradiated PVC for wire harness jacket; 100 ft roll. 3 lbs. NEW, \$12.50

SOUND BOMB

PIEZO ALERT WARNING DEVICE, 6-12 VDC produces 105 db piercing Hi-Lo beep. 4.2x4.2x1.8, 1#. #MG-SB-2, NEW, \$14.95

SLEDGE

HM-1 HAMMER

3 pound sledge with 36 oz head, flat on each end and 13.7" wood handle. US military surplus; 4# sh. USED \$10.

S2A SOUND METER

MITCHELL INSTRUMENTS S2A SOUND LEVEL METER, hand-held unit has scales 50 - 130 DB in 10 DB steps with 0-10 DB expanded scale meter. Measures A-weighted sound level as defined by OSHA; better sensitivity > 500 Hz. Designed to monitor noise level in work areas. Metal enclosed. Requires NEDA 1604 battery; w/soft case. 5.5x2.6x2.3, 2 lbs. #MIT013, NEW \$225.

HEATING - COOLING PUMP

THERMOELECTRIC 127-ELEMENT HEAT PUMP DEVICE, built for portable refrigerator; operates from 12-16 VDC. In original use, it is hot on 5"x5"x1.1" heatsink side but "freezing" on 2.6"x1.8" pump side. Reversing DC polarity reverses "hot-cold" effect. Pumps 50 watts @ 6 amps continuously. With 180 C normal-closed thermal cut-out switch. O/a 2.5"H, 3 lbs sh. #HPD-1250, NEW \$19.95

H-161E HEADSET

H-161E/U HEADSET w/BOOM MIC late model of headset for the widely used VRC-12 Series military vehicular radios. Designed for high noise environments. 150 ohm phone and mic impedance. Includes push-to-talk switch (ICS or RAD momentary) and CX-8650B coil cord with two U229 connectors; 4 lbs sh. UNUSED, \$59.50

6000 PSI GAUGE

MARSH PRESSURE GAUGE, 0-6000 PSI, (5000 PSI red-line); has large 4" dia 270 degree scale & 7/16" dia fitting on back. Outer rim 6.3" dia; mounts in to 4.9" dia hole. 2#. #M6000-PSI, NEW \$14.95

ELGAR 500 W CONVERTER

ELGAR PROGRAMMABLE 500 WATT FREQUENCY CONVERTER uses four 125 watt power amplifiers whose voltage, frequency & phase are digitally programmable. Input 208 VAC 60 Hz; AC output 300-1000 Hz selectable 0-15/30/130 V (phase A'), 0-40/160 V (phases A, B, C) & tandem 240 VA @ 115 V. This special version ELGAR 504 requires 16-bit binary & TTL programming to operate; program info not available. 7x19 x24, 150 lbs sh. #580-283-047, UNUSED, \$495.

ELGAR 501 AC POWER SOURCE, converts 115 VAC 60 Hz input to 115 VAC 500 VA 400 Hz output w/400B plug-in. 7x19x20, 125 lbs. USED, \$395

12/15 VDC 3 AMP

DELTRON MODULAR POWER SUPPLY, heavy duty linear-type has adjustable output +/- 12 to 15 VDC 3 amp from 105-125/210-250 VAC 47-440 Hz in. 0.1% line/load regulation; 4.8x9x3.1, 9 lbs. #QD12-15-3, NEW \$19. ++++++

POWER ONE EHCC15-3, similar to above except output +/- 12 VDC 3.4 A or 15 V 3 A, \$20.95

500 WATT POWER AMP

AM-2061/URT HF POWER AMPLIFIER, part of Collins KWT-6 2 to 30 MHz xmitter. Contains driver and PA stages plus Tx gain control circuit. Amplifies 0.15 W RF-input and produces 500 W PEP output using two 4CX250B's driven by two 6CL6's. Has switch for bands 2-3.7, 3.7-7.7, 7.7-15.7, and 15.7-30 MHz; vernier controls for DRIVER & PA TUNE and Plate Current meter. TNC input & N output connections. Requires +2000 V 500 ma, +400 V 80 ma, 28 VDC unfiltered, and 115 V 60 Hz. Not standard 19" rackmount. W/schematic & block diagram. 7x19x7.8, 25# sh. Used, \$225.

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